

### Bid Evaluation Report

1. Name of Procuring Agency: U.S-Pakistan Center for Advanced Studies in Water, Mehran University of Engineering & Technology, Jamshoro
2. Tender Reference No: PM/USPCAS-W/ MUET/JAM/118, Dated: 23-Nov-2017
3. Tender Description/Name of work/item: PROCUREMENT OF CHEMICALS, PLASTIC WARES & GLASS WARES FOR RESEARCH PROJECT.
4. Method of Procurement: Domestic/ Local
5. Tender Published: MUET Web Site on 25-Nov-2017 and on SPPRA Website 27-Nov-2017 SPPRA Sr. No. 35431
6. Total Bid documents Sold; 03 Nos
7. Total Bids Received: 03 Nos
8. Technical Bid Opening date: (if applicable) N/A
9. No. of Bid technically qualified (if applicable): 03 Nos
10. Bid(s) Rejected: Nil.
11. Financial Bid Opening date: 19-Dec-2017
12. Bid Evaluation Report:

<i>S No</i>	<i>Name of Firm or Bidder</i>	<i>Cost offered by the Bidder</i>	<i>Ranking in terms of cost</i>	<i>Comparison with Estimated cost</i>	<i>Reasons for acceptance/rejection</i>	<i>Remarks</i>
0	1	2	3	4	5	6
1	M/s Musaji Adam & Sons, Karachi	<b>ITEM WISE COMPARATIVE STATEMENT ATTACHED</b>				
2	M/s Penicon, Karachi					
3	M/s Briogene (Pvt) Ltd, Karachi					

  
Abdul Ghafoor Kandhir  
Procurement Manager,  
USPCAS-W  
MUET, Jamshoro

  
Engr. Muhamamd Mashooque Siddiqui  
Director Procurement,  
University of Sindh

  
Prof. Dr. B. K. Lashari  
Project Director,  
USPCAS-W,  
MUET, Jamshoro



**PROCUREMENT MANAGER**

U.S.-Pakistan Center for Advanced Studies in Water

Name of Work: **PROCUREMENT OF CHEMICALS, PLASTIC WARES & GLASS WARES FOR RESEARCH PROJECT.**

**MINUTES OF MEETING:**

A meeting for opening of tender for the procurement of Chemicals, Plastic wares & Glass wares for Research Project was held on 19-12-2017 at 01:00 pm in the office of the Project Director, USPCAS-W, MUET, Jamshoro. The following members of tender Opening Committee were present:

1. Dr. Bakhshal Khan Lashari  
Project Director, USPCAS-W, Convener
2. Engr. Muhammad Mashooque Siddiqui  
Director Procurements, University of Sindh. Member
3. Mr. Abdul Ghafoor Kandhir,  
Procurement Manager, USPCAS-W, Member/Secretary

The Procurement Manager briefed the Committee members that the sealed percentage/ item rate tenders were invited as per SPP Rules 2010 for the said work vide NIT No & dated: PM/USPCAS-W/MUET/JAM/118, 23-11-2017 with purchasing date started from 30-11-2017 to 18-12-2017, submission date was 19-12-2017 up to 12:30 pm, whereas opening date was 19-12-2017 at 01:00 pm. The Procurement Manager further briefed that Three (03) bidders purchased the Bidding Documents and submitted the same in-time. After that, the Contractors were called in the office of the Project Director, so that Bidding Documents can be opened in their presence under Rule-41 of SPP Rules 2010. The following venders took part in the bidding process:

1. M/s Musaji Adam & Sons, Karachi
  2. M/s Penicon, Karachi
  3. M/s Briogene (Pvt) Ltd, Karachi
- } **Attendance sheet attached**


The Committee started the proceedings of opening of tender in-front of aforementioned bidders and read aloud the names of each bidder one by one by opening their respective bids and also read aloud bid amount and other details as depicted here under:

S#.	Name of Firm or Bidder	Contractor quoted bid amount in Rs.
1	M/s Musaji Adam & Sons, Karachi	Comparative Statement attached
2	M/s Penicon, Karachi	
3	M/s Briogene (Pvt) Ltd, Karachi	

After detailed discussion & deliberations, the Committee recommended to award the work order on item rates to the lowest / best evaluated venders.

The meeting ended with the vote of thanks to all the members.

  
**Abdul Ghafoor Kandhir,**  
Procurement Manager,  
USPCAS-W  
MUET, Jamshoro

  
**Engr. Muhammad Mashooque Siddiqui,**  
Director Procurement,  
University of Sindh, Jamshoro

  
**Prof. Dr. B. K. Lashari,**  
Project Director,  
USPCAS-W,  
MUET, Jamshoro

**COMPARATIVE STATEMENT OF THE TENDER FOR PROCUREMENT OF CHEMICALS, PLASTIC WARES & GLASS WARES FOR RESEARCH PROJECT**

Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total
<b>CHEMICALS</b>															
RP/CH/01	DNeasy PowerBiofilm Kit (50)	Genomic DNA isolation kit from water bacterial biofilms	50 reactions	Norgen Canada	Part No. 62300 Biofilm DNA Isolation Kit 50PREP	46,337.22	46,337.22	Qiagen	Cat No. 24000-50 For the Isolation of high-quality, pure DNA from biofilm samples Pack Size: 50 reactions	65,000.00	65,000.00	-	-	-	-
RP/CH/02	100 bp DNA ladder (Marker)	Size: 50 µg / 500 µl, 11 bands, 500bp thick band.	1 vial (500 ul)	Norgen Canada	Part No. 11400 PCR Sizer 100 bp DNA Ladder (100 bp to 1000 bp) 100 LOADS	Rs 7,800.00	Rs 7,800.00	Qiagen	Cat No. 239045 GelPilot 100 bp Plus Ladder (100) Ready-to-use DNA marker, 600ul (100 lanes), 11 fragments: 100-1500 bp Pack Size: 1 Vial (600 ul)	Rs 26,000.00	Rs 26,000.00	BioLine USA	100 bp DNA ladder (Marker) Kit	Rs 19,000.00	Rs 19,000.00
					Opt: 1. Part No. 11500 LowRanger 100 bp DNA Ladder (100 bp to 2000 bp) 100 LOADS	Rs 7,800.00	Rs 7,800.00								
					Opt: 2. Part No. 11300 PCR Ranger 100 bp DNA Ladder (50 bp to 1000 bp) 100 LOADS	Rs 7,800.00	Rs 7,800.00								
RP/CH/03	DNeasy PowerWater Kit	Genomic DNA extraction kit from water samples	50 reactions	Norgen Canada	Part No. 26450 Water RNA/DNA Purification Kit - 0.45 25 PREP Opt: 1. Part No. 26400 Water RNA/DNA Purification Kit - 0.22 25 PREP	58,345.73 62,883.48	58,345.73 62,883.48	Qiagen	Cat No. 14900-50-NF DNeasy PowerWater Kit (50) For the Isolation of genomic DNA from filtered water samples, including turbid water Pack Size: 50 reactions	80,000.00	80,000.00	-	-	-	-
RP/CH/04	Casamino acid	hydrochloric acid hydrolysate of casein.	500g	BioBasic Canada	Part No. CB3060 Casamino acid, 500g	12,298.57	12,298.57	-	-	-	-	Daejung Korea	Casamino Acid	5,900.00	5,900.00
RP/CH/05	Dextrose	Synonyms: Dextrose, Formula: C6H12O6, Molecular weight: 180.16 g/mol.	500g	-	-	-	-	-	-	-	-	Daejung Korea	Dextrose, 500g	1,000.00	1,000.00
RP/CH/06	Soluble starch	Formula: C12H22O11 Formula Weight: 342.30 g/mol.	500g	BioBasic Canada	Part No. SB0904 Starch Soluble, High Purity, 500g	7,087.33	7,087.33	-	-	-	-	Daejung Korea	Soluble starch, 500g	2,400.00	2,400.00
RP/CH/07	Dipotassium phosphate	K2HPO4. 174.18 g/mol	500g	BioBasic Canada	Part No. PB0447 Potassium phosphate, dibasic, anhydrous, 500g	8,441.39	8,441.39	-	-	-	-	Daejung Korea	Dipotassium phosphate, 500g	1,500.00	1,500.00
RP/CH/08	Magnesium sulphate per 7H2O	Magnesium sulfate heptahydrate; Magnesium sulfate (1:1) heptahydrate; Magnesium sulphate heptahydrate; Magnesium sulfate Molecular Formula: H14MgO11S Molecular Weight: 246.466 g/mol.	500g	BioBasic Canada	Part No. MRB0329 Magnesium Sulphate, heptahydrate, biotech, 500g	6,566.44	6,566.44	-	-	-	-	Daejung Korea	Magnesium sulphate, 500g	1,000.00	1,000.00
RP/CH/09	Sodium Pyruvate	Formula: C3H3NaO3 Formula Weight: 110.04 g/mol Storage Temperature: 2 - 8°C	500g	BioBasic Canada	Part No. SB0884 Sodium Pyruvate, 100g	7,280.84	7,280.84	-	-	-	-	Scharlau Spain	Sodium Pyruvate, 500g	28,700.00	28,700.00

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Item Code	Name of Equipment	Description / Specification of Items	Qty	M/s Proicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Mesaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total
RP/CH/10	Magnesium Sulphate	Formula: MgSO4 Formula Weight: 120.37 g/mol.	500g	BioBasic Canada	Part No. MN1988 Magnesium Sulphate, anhydrous	6,817.94	6,817.94	-	-	-	-	Daejung Korea	Magnesium Sulphate	1,600.00	1,600.00
RP/CH/11	NaOCl (Sodium hypochlorite solution)	Reagent grade, available chlorine 10-15 %, 425044-250ML.	500g	-	-	-	-	-	-	-	-	Daejung Korea	NaOCl (Sodium hypochlorite solution)	600.00	600.00
RP/CH/12	Liquid NH3	Formula: H3N, Formula Weight: 17.03 g/mol.	500 ml	-	-	-	-	-	-	-	-	Daejung Korea	Liquid NH3 - Ammonia	600.00	600.00
RP/CH/13	Free chlorine	Tablets, packaging ampule of 1 x 2 ml.	1 pack	No quotation received											
RP/CH/14	BaClight Bacterial Viability Kit	To check the viable bacterial cells in water samples, and biofilm samples.	1 kit for 100 isolates	No quotation received											
RP/CH/15	m-Endo Agar LES	Lactose 9.4 g Non-Denatured Ethanol, 20 mL Tryptose 7.5 g Enzymatic Digest of Casein 3.7 g Enzymatic Digest of Animal Tissue 3.7 g Sodium Chloride 3.7 g Potassium Phosphate, dibasic 3.3 g Sodium Sulfite 1.6 g Yeast Extract 1.2 g Potassium Phosphate, monobasic 1.0 g Basic Fuchsin 0.8 g Sodium Deoxycholate 0.1 g Sodium Lauryl Sulfate 0.05 g Agar 15 g Final pH: 7.2 ± 0.2 at 25°C	1 kg	-	-	-	-	-	-	-	-	Oxoid UK	m-Endo Agar LES 500g	18,000.00	36,000.00
RP/CH/16	R2A Agar	packaging 500 g, solubility 18.2 g/L, shipped in ambient, storage temp. Store at +15°C to +25°C.	1 kg	-	-	-	-	-	-	-	-	Oxoid UK	R2A Agar 500g	14,500.00	29,000.00
RP/CH/17	m-FC Agar, Vegitone	Composition: Ingredients Grams/Litre Tryptose (vegetable) 10.0, Protoose Peptone (vegetable) 5.0, Yeast extract 3.0, Lactose 12.5, Synthetic detergent 1.5, Sodium chloride 5.0, Aniline blue 0.1, Agar 15.0, Final pH 7.4 +/- 0.2 at 25°C.	1 kg	-	-	-	-	-	-	-	-	Oxoid UK	m-FC Agar, Vegitone 500g	24,000.00	48,000.00
RP/CH/18	EMB agar	EOSIN METHYLENE BLUE AGAR (MODIFIED) LEVINE	1 kg	-	-	-	-	-	-	-	-	Oxoid UK	EMB Agar 500g	8,500.00	17,000.00
RP/CH/19	Agar Modified MTEC	Base for the Chromogenic Detection and Enumeration of E. coli in water by the membrane filter technique.	500 g	No quotation received											
RP/CH/20	Tris HCl	Molecular Biology Grade, Formula Weight: 157.56. Purity: >99.0%	500g	BioBasic Canada	Part No. TB0103 Tris hydrochloride	7,522.87	7,522.87	-	-	-	-	Scharlau Spain	Tris HCl 100g	3,400.00	17,000.00
RP/CH/21	EDTA	Molecular biology grade, Molecular Weight: 292.24	200g	BioBasic Canada	Part No. EB0107 EDTA, Free acid, Ultra Pure	6,972.24	6,972.24	-	-	-	-	Scharlau Spain	EDTA 1kg	23,800.00	23,800.00
RP/CH/22	Glacial acetic acid	Molecular biology grade, Assay >99.85%, Molecular Weight 60.05.	500 ml	-	-	-	-	-	-	-	-	Daejung Korea	Glacial Acetic Acid	1,000.00	1,000.00
RP/CH/23	6X gel loading dye	Label or Dye: Bromophenol Blue, Gel Compatibility: Acrylamide Gels, Agarose Gels.	1 vial (1 ml)	Norgen Canada	Part No. 28151 6X Bromophenol Blue/Xylene Cyanol DNA Loading Dye 5 x 1ml	10,500.00	10,500.00	Qiagen	Cat No. 239901 GelPilot DNA Loading Dye 5x Pack Size: 6x500 ul	10,000.00	10,000.00	-	-	-	-

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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit	Total
RP/CH/24	VisualaNA (DNA Staining Dye)	It replaces Ethidium Bromide (toxic, potential mutagen) for visualization of DNA or RNA in Agarose gel. VisualaNA is non-carcinogenic and causes significantly fewer mutations in the Ames-test and tests negative in both the mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test.	2 vials of 1 ml	BioBasic Canada	DT81414 Green - DNA Dye, ready to use 1.5ml	14,247.38	14,247.38	--	--	-	-	--	--	-	-
RP/CH/25	Absolute ethanol	Assay ≥99.8% (GC), Molecular Weight 46.07.	5 liter	--	--	-	-	--	--	-	-	--	Absolute E 2.5L	7,500.00	15,000.00
RP/CH/26	Sybergreen PCR master mix	PCR master mix with dNTPS, PCR buffer, MgCl2, high fidelity polymerase, Sybergreen for qPCR experiments	1 kit for 200 reactions	Affymetrix	Part No. 75600 VeriQuest SYBR Green qPCR Master Mix (2X) 200RXN	42,000.00	42,000.00	Qiagen	Cat No. 208052 QuantiNova SYBR Green PCR Kit (100) For 100 x 20 ul reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 ul QuantiNova yellow Template Dilution Buffer, 250 ul QN ROX Reference Dye, 1.9 ml Water Pack Size: 100 Reactions	28,000.00	56,000.00	Bioline USA	Sybergreen PCR mastermix	85,000.00	85,000.00
RP/CH/27	PCR grade water (Nuclease free water)	DNase RNase Free water, for Molecular Biology, or Molecular Biology grade	100	IDT	Part No. IDT NUCLEASUE-FREE-WATER 1L	10,800.00	10,800.00	Qiagen	Cat No. 129114 Nuclease-Free Water (10 x 50 ml) 10 x 50 ml nuclease-free water prepared without the use of diethylpyrocarbonate (DEPC); provided in 10 x 50 plastic tubes Pack Size: 500 ml	30,000.00	30,000.00	Hyclone USA	PCR grade water (Nuclease free water) 100 ml	3,500.00	3,500.00
RP/CH/28	16S V4-V5 FW	AYTGGGYDTAAAGNG, 25nm.	1	IDT DNA	AYTGGGYDTAAAGNG	540.00	540.00	--	--	-	-	--	--	-	-
RP/CH/29	16S V4-V5 RV	CCGTCATYYTTTRAGTTT, 25nm.	1	IDT DNA	CCGTCATYYTTTRAGTTT	720.00	720.00	--	--	-	-	--	--	-	-
RP/CH/30	clnt1-1(class1) FW	GGCATCCAAGCAGCAAG, 25nm.	1	IDT DNA	GGCATCCAAGCAGCAAG	612.00	612.00	--	--	-	-	--	--	-	-
RP/CH/31	clnt1-1(class1) RV	AAGCAGACTTGACCTGA, 25nm.	1	IDT DNA	AAGCAGACTTGACCTGA	612.00	612.00	--	--	-	-	--	--	-	-
RP/CH/32	sul1FW	CAGCGCTATGCGCTCAAG, 25nm.	1	IDT DNA	CAGCGCTATGCGCTCAAG	648.00	648.00	--	--	-	-	--	--	-	-
RP/CH/33	sul1 RV	ATCCCGCTGCGTGAGT, 25nm.	1	IDT DNA	ATCCCGCTGCGTGAGT	612.00	612.00	--	--	-	-	--	--	-	-
RP/CH/34	sul2 FW	TCATCTGCCAAACTCGTCGT TA, 25nm.	1	IDT DNA	TCATCTGCCAAACTCGTCGT TA	756.00	756.00	--	--	-	-	--	--	-	-
RP/CH/35	sul2 RV	GTCAAAGAACGCCCAATG T, 25nm.	1	IDT DNA	GTCAAAGAACGCCCAATG T	720.00	720.00	--	--	-	-	--	--	-	-
RP/CH/36	sulA-folP-01 FW	CAGGCTCGTAAATTGATAGC AGAAG, 25nm.	1	IDT DNA	CAGGCTCGTAAATTGATAGC AGAAG	900.00	900.00	--	--	-	-	--	--	-	-
RP/CH/37	sulA-folP-01 RV	CTTTCCTTGCGAATCGCTTT, 25nm.	1	IDT DNA	CTTTCCTTGCGAATCGCTTT	720.00	720.00	--	--	-	-	--	--	-	-
RP/CH/38	sulA-folP-03 FW	GCGATTGCGAAGGAAAAGTG A, 25nm.	1	IDT DNA	GCGATTGCGAAGGAAAAGTG A	720.00	720.00	--	--	-	-	--	--	-	-
RP/CH/39	sulA-folP-03 RV	CACATGGGCCATTTTTTCAT C, 25nm.	1	IDT DNA	CACATGGGCCATTTTTTCAT C	756.00	756.00	--	--	-	-	--	--	-	-
RP/CH/40	tmpA-01 FW	CATCATCGGACGGACAGAA TT, 25nm.	1	IDT DNA	CATCATCGGACGGACAGAA TT	756.00	756.00	--	--	-	-	--	--	-	-
RP/CH/41	tmpA-01 RV	GTCGGAGATGGGGTGTAG AAAAGT, 25nm.	1	IDT DNA	GTCGGAGATGGGGTGTAG AAAAGT	864.00	864.00	--	--	-	-	--	--	-	-

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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogee (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi				
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit	Total	
RP/CH/42	tmpA-02 FW	GGGCGGGTCGATTGAAA, 25nm	1	IDT DNA	GGGCGGGTCGATTGAAA	612.00	612.00	-	-	-	-	-	-	-	-	-
RP/CH/43	tmpA-02 RV	GTGGCGGGATCTGCTT, 25nm	1	IDT DNA	GTGGCGGGATCTGCTT	612.00	612.00	-	-	-	-	-	-	-	-	-
RP/CH/44	tmpA-03 FW	AATTGATGCGGACGGCTTA A, 25nm	1	IDT DNA	AATTGATGCGGACGGCTTA A	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/45	tmpA-03 RV	TCACCAAACGTGTTATGGAG TCGTT, 25nm	1	IDT DNA	TCACCAAACGTGTTATGGAG TCGTT	900.00	900.00	-	-	-	-	-	-	-	-	-
RP/CH/46	tmpA-04 FW	CCGATCACGGAAAAGCTCAA G, 25nm	1	IDT DNA	CCGATCACGGAAAAGCTCAA G	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/47	tmpA-04 RV	GGCTCGCATGACTTCGAATC 25nm	1	IDT DNA	GGCTCGCATGACTTCGAATC	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/48	tmpA-05 FW	GCCGCACTGTCGATTTTAT C, 25nm	1	IDT DNA	GCCGCACTGTCGATTTTAT C	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/49	tmpA-05 RV	GCGGGATCTGCCACTTCTT, 25nm	1	IDT DNA	GCGGGATCTGCCACTTCTT	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/50	tmpA-07 FW	GAAACCGATGCTACAATATC CAATTT, 25nm	1	IDT DNA	GAAACCGATGCTACAATATC CAATTT	936.00	936.00	-	-	-	-	-	-	-	-	-
RP/CH/51	tmpA-07 RV	CAGCACCGTTTGCAGTGTAAG, 25nm	1	IDT DNA	CAGCACCGTTTGCAGTGTAAG	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/52	TP614 FW	GGAAATCAACGGCATCCAG TT, 25nm	1	IDT DNA	GGAAATCAACGGCATCCAG TT	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/53	TP614 RV	CATCCATGCGCTTTGTCTC T, 25nm	1	IDT DNA	CATCCATGCGCTTTGTCTC T	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/54	vanA FW	AAAAGGCTCTGAAAACGCA GTTAT, 25nm	1	IDT DNA	AAAAGGCTCTGAAAACGCA GTTAT	864.00	864.00	-	-	-	-	-	-	-	-	-
RP/CH/55	vanA RV	CGGCCGTTATCTTGTA AAAA CAT, 25nm	1	IDT DNA	CGGCCGTTATCTTGTA AAAA CAT	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/56	vanB-01 FW	TTGTCGGCGAAGTGGATCA, 25nm	1	IDT DNA	TTGTCGGCGAAGTGGATCA	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/57	vanB-01 RV	AGCCTTTTCCGGCTCGTT, 25nm	1	IDT DNA	AGCCTTTTCCGGCTCGTT	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/58	vanB-02 FW	CCGGTCGAGGAACGAAATC, 25nm	1	IDT DNA	CCGGTCGAGGAACGAAATC	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/59	vanB-02 RV	TCCTCCTGCAAAAAAAGATC AAC, 25nm	1	IDT DNA	TCCTCCTGCAAAAAAAGATC AAC	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/60	vanC-01 FW	ACAGGGATTGGCTATGAAC CAT, 25nm	1	IDT DNA	ACAGGGATTGGCTATGAAC CAT	792.00	792.00	-	-	-	-	-	-	-	-	-
RP/CH/61	vanC-01 RV	TGACTGGCGATGATTGACT ATG, 25nm	1	IDT DNA	TGACTGGCGATGATTGACT ATG	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/62	vanC-03 FW	AAATCAATACTATGCCGGC TTT, 25nm	1	IDT DNA	AAATCAATACTATGCCGGC TTT	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/63	vanC-03 RV	CCGACCGCTGCCATCA, 25nm	1	IDT DNA	CCGACCGCTGCCATCA	576.00	576.00	-	-	-	-	-	-	-	-	-
RP/CH/64	vanC1 FW	AGGCGATAGCGGGTATTGA A, 25nm	1	IDT DNA	AGGCGATAGCGGGTATTGA A	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/65	vanC1 RV	CAATCGTCAATTGCTCATT CC, 25nm	1	IDT DNA	CAATCGTCAATTGCTCATT CC	792.00	792.00	-	-	-	-	-	-	-	-	-
RP/CH/66	vatB-01 FW	GGAAAAAGCAACTCCATCT CTGA, 25nm	1	IDT DNA	GGAAAAAGCAACTCCATCT CTGA	864.00	864.00	-	-	-	-	-	-	-	-	-
RP/CH/67	vatB-01 RV	TCCTGGCATAACAGTAACAT TCTGA, 25nm	1	IDT DNA	TCCTGGCATAACAGTAACAT TCTGA	900.00	900.00	-	-	-	-	-	-	-	-	-
RP/CH/68	vgaA-01 FW	CGAGTATTGGAAAGCAG CTAGTT, 25nm	1	IDT DNA	CGAGTATTGGAAAGCAG CTAGTT	900.00	900.00	-	-	-	-	-	-	-	-	-
RP/CH/69	vgaA-01 RV	CCCGTACCGTTAGAGCCGAT A, 25nm	1	IDT DNA	CCCGTACCGTTAGAGCCGAT A	756.00	756.00	-	-	-	-	-	-	-	-	-

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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogee (Pvt) Ltd., Karachi				M/s Mesaji Adam & Sons (Pvt) Ltd, Karachi				
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	
RP/CH/70	vgaA-02 FW	GACGGGTATTGTGAAAGC AA, 25nm.	1	IDT DNA	GACGGGTATTGTGAAAGC AA	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/71	vgaA-02 RV	TTTCCTGTACCATTAGATCC GATAATT, 25nm.	1	IDT DNA	TTTCCTGTACCATTAGATCC GATAATT	972.00	972.00	-	-	-	-	-	-	-	-	-
RP/CH/72	yidY_mdtL-01 FW	GCAGTTGCATATCGCCTTCT C25nm	1	IDT DNA	GCAGTTGCATATCGCCTTCT C	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/73	yidY_mdtL-01 RV	CTTCCCGGCAAACAGCAT, 25nm	1	IDT DNA	CTTCCCGGCAAACAGCAT	648.00	648.00	-	-	-	-	-	-	-	-	-
RP/CH/74	yidY_mdtL-02 FW	TGCTGATCGGGATTCTGATT G25nm	1	IDT DNA	TGCTGATCGGGATTCTGATT G	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/75	yidY_mdtL-02 RV	CAGGCGCGACGAACATAAT, 25nm.	1	IDT DNA	CAGGCGCGACGAACATAAT	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/76	vanG FW	ATTGAATTGGCAGGTATAC AGGTTA, 25nm.	1	IDT DNA	ATTGAATTGGCAGGTATAC AGGTTA	936.00	936.00	-	-	-	-	-	-	-	-	-
RP/CH/77	vanG RV	TGATTTGTCTTTGCCATAC ATAATGC, 25nm.	1	IDT DNA	TGATTTGTCTTTGCCATAC ATAATGC	972.00	972.00	-	-	-	-	-	-	-	-	-
RP/CH/78	vanHB FW	GAGGTTTCCGAGGCGACAA, 25nm.	1	IDT DNA	GAGGTTTCCGAGGCGACAA	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/79	vanHB RV	CTCTCGGCGGAGTCGTAT, 25nm.	1	IDT DNA	CTCTCGGCGGAGTCGTAT	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/80	vanHD FW	GTGGCCGATTATACCGTCAT G, 25nm.	1	IDT DNA	GTGGCCGATTATACCGTCAT G	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/81	vanHD RV	CGCAGGTCATTCAGGCAAT, 25nm.	1	IDT DNA	CGCAGGTCATTCAGGCAAT	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/82	tetA-01 FW	GCTGTTGTCTGCGGAAA, 25nm.	1	IDT DNA	GCTGTTGTCTGCGGAAA	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/83	tetA-01 RV	GGTTAAGTTCCTTGAACGCA AACT, 25nm.	1	IDT DNA	GGTTAAGTTCCTTGAACGCA AACT	864.00	864.00	-	-	-	-	-	-	-	-	-
RP/CH/84	tetB-01 FW	AGTGCGCTTTGGATGCTGTA, 25nm.	1	IDT DNA	AGTGCGCTTTGGATGCTGTA	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/85	tetB-01 RV	AGCCCCAGTAGCTCCTGTGA, 25nm.	1	IDT DNA	AGCCCCAGTAGCTCCTGTGA	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/86	tetC-01 FW	CATATCGCAATACATGCGAAA, 25nm.	1	IDT DNA	CATATCGCAATACATGCGAAA	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/87	tetC-01 RV	AAAGCCGCGTAAATAGCA A25nm	1	IDT DNA	AAAGCCGCGTAAATAGCA A	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/88	tetD-01 FW	TGCCGCGTTTGATTACACA, 25nm.	1	IDT DNA	TGCCGCGTTTGATTACACA	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/89	tetD-01 RV	CACCAGTGATCCCGGAGAT AA, 25nm.	1	IDT DNA	CACCAGTGATCCCGGAGAT AA	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/90	tetE FW	TTGGCGCTGTATGCAATGAT, 25nm.	1	IDT DNA	TTGGCGCTGTATGCAATGAT	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/91	tetE RV	CGACGACCTATGCGATCTGA, 25nm.	1	IDT DNA	CGACGACCTATGCGATCTGA	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/92	tetG-01 FW	TCAACCATTGCCGATTCGA, 25nm.	1	IDT DNA	TCAACCATTGCCGATTCGA	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/93	tetG-01 RV	TGGCCCGCAATCATG, 25nm.	1	IDT DNA	TGGCCCGCAATCATG	576.00	576.00	-	-	-	-	-	-	-	-	-
RP/CH/94	tetH FW	TTGGGTTCATCTTACCAGCA TTAA, 25nm.	1	IDT DNA	TTGGGTTCATCTTACCAGCA TTAA	864.00	864.00	-	-	-	-	-	-	-	-	-
RP/CH/95	tetH RV	TTGCGCATTATCATCGACAG A, 25nm.	1	IDT DNA	TTGCGCATTATCATCGACAG A	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/96	tetJ FW	GGGTGCCGATTAGATTACC T, 25nm.	1	IDT DNA	GGGTGCCGATTAGATTACC T	766.00	766.00	-	-	-	-	-	-	-	-	-
RP/CH/97	tetJ RV	TCGTCCAATGTAGAGCATCC ATA, 25nm.	1	IDT DNA	TCGTCCAATGTAGAGCATCC ATA	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/98	tetK FW	CAGCAGTCATTGGAAAATTA TCTGATTATA, 25nm.	1	IDT DNA	CAGCAGTCATTGGAAAATTA TCTGATTATA	1,080.00	1,080.00	-	-	-	-	-	-	-	-	-

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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi				
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	
RP/CH/99	tetK RV	CCTTGTAACCTACCAAA AATCAAATA, 25nm	1	IDT DNA	CCTTGTAACCTACCAAA AATCAAATA	1,080.00	1,080.00	-	-	-	-	-	-	-	-	-
RP/CH/100	tetL-01 FW	AGCCCGATTTATTCAAGGAA TTG, 25nm	1	IDT DNA	AGCCCGATTTATTCAAGGAA TTG	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/101	tetL-01 RV	CAAAATGCTTTCCCCCTGTTC T, 25nm	1	IDT DNA	CAAAATGCTTTCCCCCTGTTC T	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/102	tetM-01 FW	CATCATAGACACGCCAGGA CATAT, 25nm	1	IDT DNA	CATCATAGACACGCCAGGA CATAT	864.00	864.00	-	-	-	-	-	-	-	-	-
RP/CH/103	tetM-01 RV	CGCCATCTTTTGCAGAAATC A25nm	1	IDT DNA	CGCCATCTTTTGCAGAAATC A	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/104	tetO-01 FW	ATGTGGATACTACAACGCAT GAGATT, 25nm	1	IDT DNA	ATGTGGATACTACAACGCAT GAGATT	936.00	936.00	-	-	-	-	-	-	-	-	-
RP/CH/105	tetO-01 RV	TGCCTCCACATGATATTTT CCT, 25nm	1	IDT DNA	TGCCTCCACATGATATTTT CCT	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/106	tetPA FW	AGTTGCAGATGTGTATAGTC GTAAACTATCTATT, 25nm	1	IDT DNA	AGTTGCAGATGTGTATAGTC GTAAACTATCTATT	1,224.00	1,224.00	-	-	-	-	-	-	-	-	-
RP/CH/107	tetPA RV	TGCTACAAGTACGAAAACA AAACTAGAA, 25nm	1	IDT DNA	TGCTACAAGTACGAAAACA AAACTAGAA	1,008.00	1,008.00	-	-	-	-	-	-	-	-	-
RP/CH/108	tetPB-01 FW	ACACCTGGACACGCTGATTT T25nm	1	IDT DNA	ACACCTGGACACGCTGATTT T	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/109	tetPB-01 RV	ACCGTCTAGAACCGGAAT G, 25nm	1	IDT DNA	ACCGTCTAGAACCGGAAT G	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/110	tetQ FW	CGCCTCAGAAGTAAGTTTCA TACACTAAG, 25nm	1	IDT DNA	CGCCTCAGAAGTAAGTTTCA TACACTAAG	1,008.00	1,008.00	-	-	-	-	-	-	-	-	-
RP/CH/111	tetQ RV	TCGTTTCATGCGGATATTATC AGAAT, 25nm	1	IDT DNA	TCGTTTCATGCGGATATTATC AGAAT	900.00	900.00	-	-	-	-	-	-	-	-	-
RP/CH/112	mexA FW	AGGACAACGCTATGCAACG AA, 25nm	1	IDT DNA	AGGACAACGCTATGCAACG AA	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/113	mexA RV	CCGGAAAGGGCCGAAAT, 25nm	1	IDT DNA	CCGGAAAGGGCCGAAAT, 25nm	612.00	612.00	-	-	-	-	-	-	-	-	-
RP/CH/114	mexD FW	TTGCCACTGGCTTTCATGAG, 25nm	1	IDT DNA	TTGCCACTGGCTTTCATGAG, 25nm	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/115	mexD RV	CACTGCGGAGAACTGTCTGT AGA, 25nm	1	IDT DNA	CACTGCGGAGAACTGTCTGT AGA	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/116	mexE FW	GGTCAGCACCGACAAGGTC TAC, 25nm	1	IDT DNA	GGTCAGCACCGACAAGGTC TAC	792.00	792.00	-	-	-	-	-	-	-	-	-
RP/CH/117	mexE RV	AGCTCGACGTACTTGAGGA ACAC, 25nm	1	IDT DNA	AGCTCGACGTACTTGAGGA ACAC	828.00	828.00	-	-	-	-	-	-	-	-	-
RP/CH/118	mexF FW	CCGCAGAGAAGCCAAGA, 25nm	1	IDT DNA	CCGCAGAGAAGCCAAGA, 25nm	612.00	612.00	-	-	-	-	-	-	-	-	-
RP/CH/119	mexF RV	TTGAGTTCGGCGGTGATGA, 25nm	1	IDT DNA	TTGAGTTCGGCGGTGATGA, 25nm	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/120	ampC-01 FW	TGGCGTATCGGGTCAATGT, 25nm	1	IDT DNA	TGGCGTATCGGGTCAATGT, 25nm	684.00	684.00	-	-	-	-	-	-	-	-	-
RP/CH/121	ampC-01 RV	CTCCACGGGCCAGTTGAG, 25nm	1	IDT DNA	CTCCACGGGCCAGTTGAG, 25nm	648.00	648.00	-	-	-	-	-	-	-	-	-
RP/CH/122	ampC-02 FW	GCAGCACGCCCGTAA, 25nm	1	IDT DNA	GCAGCACGCCCGTAA, 25nm	576.00	576.00	-	-	-	-	-	-	-	-	-
RP/CH/123	ampC-02 RV	TGTACCCATGATGCGGTAC T25nm	1	IDT DNA	TGTACCCATGATGCGGTAC T	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/124	ampC-04 FW	TCCGGTGACGCGACAGA, 25nm	1	IDT DNA	TCCGGTGACGCGACAGA, 25nm	612.00	612.00	-	-	-	-	-	-	-	-	-
RP/CH/125	ampC-04 RV	CAGCACGCCGGTAAAAGT, 25nm	1	IDT DNA	CAGCACGCCGGTAAAAGT, 25nm	648.00	648.00	-	-	-	-	-	-	-	-	-
RP/CH/126	ampC-05 FW	CTGTTGAGCTGGTTCTAT AAGTAAA, 25nm	1	IDT DNA	CTGTTGAGCTGGTTCTAT AAGTAAA	972.00	972.00	-	-	-	-	-	-	-	-	-
RP/CH/127	ampC-05 RV	CAGTATCTGGTCACCGGATC GT, 25nm	1	IDT DNA	CAGTATCTGGTCACCGGATC GT	792.00	792.00	-	-	-	-	-	-	-	-	-
RP/CH/128	ampC-06 FW	CCGCTCAAGCTGGACCATAC 25nm	1	IDT DNA	CCGCTCAAGCTGGACCATAC 25nm	720.00	720.00	-	-	-	-	-	-	-	-	-
RP/CH/129	ampC-06 RV	CCATATCTGCACGTTGGTT T, 25nm	1	IDT DNA	CCATATCTGCACGTTGGTT T	756.00	756.00	-	-	-	-	-	-	-	-	-
RP/CH/130	blaSHV-01 FW	TCCCATGATGAGCACCTTTA AA, 25nm	1	IDT DNA	TCCCATGATGAGCACCTTTA AA	792.00	792.00	-	-	-	-	-	-	-	-	-

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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Masaji Adam & Sons (Pvt) Ltd, Karachi							
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total				
RP/CH/131	blaSHV-01 RV	TTCTGTCACCGGCATCCA, 25nm.	1	IDT DNA	TTCTGTCACCGGCATCCA	612.00	612.00	--	--	-	-	--	--	-	-				
RP/CH/132	blaTEM FW	AGCATCTTACGGATGGCATG A, 25nm.	1	IDT DNA	AGCATCTTACGGATGGCATG A	756.00	756.00	--	--	-	-	--	--	-	-				
RP/CH/133	blaTEM RV	TCCTCCGATCGTTGTCAGAA GT, 25nm.	1	IDT DNA	TCCTCCGATCGTTGTCAGAA GT	792.00	792.00	--	--	-	-	--	--	-	-				
RP/CH/134	speN-01 FW	AAAAAGTTCGATGAAACACG CCTAT, 25nm.	1	IDT DNA	AAAAAGTTCGATGAAACACG CCTAT	864.00	864.00	--	--	-	-	--	--	-	-				
RP/CH/135	speN-01 RV	TCCAGTGGTAGTCCCCGAAT C, 25nm.	1	IDT DNA	TCCAGTGGTAGTCCCCGAAT C	756.00	756.00	--	--	-	-	--	--	-	-				
RP/CH/136	speN-02 FW	CAGAATCTTCTGAAAAGTT TGATGAA, 25nm.	1	IDT DNA	CAGAATCTTCTGAAAAGTT TGATGAA	972.00	972.00	--	--	-	-	--	--	-	-				
RP/CH/137	speN-02 RV	CGCAGACACGCCGAATC, 25nm.	1	IDT DNA	CGCAGACACGCCGAATC	612.00	612.00	--	--	-	-	--	--	-	-				
RP/CH/138	str FW	AATGAGTTTTGGAGTGCTC AACGTA, 25nm.	1	IDT DNA	AATGAGTTTTGGAGTGCTC AACGTA	936.00	936.00	--	--	-	-	--	--	-	-				
RP/CH/139	str RV	AATCAAAAACCCCTATTAAG CCAAT, 25nm.	1	IDT DNA	AATCAAAAACCCCTATTAAG CCAAT	900.00	900.00	--	--	-	-	--	--	-	-				
RP/CH/140	strA FW	CCGGTGGCATTGAGAAAA A, 25nm.	1	IDT DNA	CCGGTGGCATTGAGAAAA A	720.00	720.00	--	--	-	-	--	--	-	-				
RP/CH/141	strA RV	GTGGCTCAACCTGCGAAAA G, 25nm.	1	IDT DNA	GTGGCTCAACCTGCGAAAA G	720.00	720.00	--	--	-	-	--	--	-	-				
RP/CH/142	strB FW	GCTCGGTCGTGAGAACAAAT CT, 25nm.	1	IDT DNA	GCTCGGTCGTGAGAACAAAT CT	756.00	756.00	--	--	-	-	--	--	-	-				
RP/CH/143	strB RV	CAATTCGGTCGCTGGTAG T, 25nm.	1	IDT DNA	CAATTCGGTCGCTGGTAG T	756.00	756.00	--	--	-	-	--	--	-	-				
<b>Total:</b>							<b>420,755.43</b>	<b>Total:</b>							<b>267,000.00</b>	<b>Total:</b>			<b>337,600.00</b>

  
 (Abdul Ghaffar Kandhir)  
 Procurement Manager  
 USPCAS-W, MUET, Jamshoro

  
 (Engr. Muhammad Mashooque Siddiqui)  
 Director, procurement  
 University of Sindh

  
 (Prof. Dr. B.K. Lashari)  
 Project Director  
 USPCAS-W, MUET, Jamshoro

Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total
<b>PLASTIC WARES &amp; GLASS WARES</b>															
RP/PWG/01	1.5 ml centrifuge tubes	Microcentrifuge Tube, 1.5ml, Attached Locking Snap Cap, Rnase, Dnase, Pryogen, ATP and Human DNA Free, Sterile	500 tubes	BioBasic Canada	BT620-NS 1.5 ml Centrifuge tube 1000/PK	6,318.00	6,318.00	-	-	-	-	Axygen USA	Microcentrifuge Tube, (1.5 ml) 500 pcs	5,500.00	5,500.00
RP/PWG/02	Tips boxes 10 µl	Sterilized, volume range 0.1-10µl	10 boxes	BioBasic Canada	FT215-RNS 0.1-10 ul Filter Tip, Natural, Sterile 96/RACK	947.00	947.00	-	-	-	-	Corning USA	Tip Box 10 ul 96 tips	1,200.00	12,000.00
RP/PWG/03	Tips boxes 100 µl	Sterilized, volume range 10-100µl	10 boxes	BioBasic Canada	FT226-RNS 10-200ul Filter Tip, Natural, Sterile 96/RACK	1,006.00	1,006.00	-	-	-	-	Corning USA	Tip Box 100 ul 96 tips	1,000.00	10,000.00
RP/PWG/04	Tips boxes 1000 µl	Sterilized, volume range 100-1000µl	10 boxes	BioBasic Canada	FT222RS 100-1000ul Filter Tip, Natural, Sterile 100/RACK	1,076.00	1,076.00	-	-	-	-	Corning USA	Tip Box 1000 ul 100 tips	1,150.00	11,500.00
RP/PWG/05	Parafilm	roll size=4 in. x 125 ft.	4	BioBasic Canada	PF002 Parafilm, 4X125'	9,632.60	38,530.40	-	-	-	-	-	Parafilm 4inch * 124ft	4,500.00	18,000.00
RP/PWG/06	Tissues roll	Layer: 2 Ply, Without Flavor, Recycled Pulp	10	No Quotation Received											
RP/PWG/07	Powder-free latex gloves	Latex, 3 boxes, Medium and 3 small size	6	No Quotation Received											
RP/PWG/08	Aluminium foil	Diamond aluminium foil, 37.5 sq.ft.	5	-	-	-	-	-	-	-	-	Pak-made	Aluminum Foil	480.00	2,400.00
RP/PWG/09	0.2 ml PCR tubes	0.2 ml thin-walled tubes with clear flat cap, for real time PCR experiments	total 100 pieces or 5 packs	BioBasic Canada	BP541-S100 0.2 ml PCR Tube, Flat Cap, Sterile 10x100/ BAG	6,786.00	6,786.00	Qiagen	Cat No. 981005 PCR Tubes, 0.2 ml (1000) 1000 thin-walled tubes for 1000 reactions of 20-25 ul Pack Size: 1000	22,000.00	22,000.00	Axygen USA	PCR Tubes (0.2 ml) 1000 pcs	7,800.00	7,800.00
RP/PWG/10	Ice block (for 0.2 ml tubes)	Aluminum Cooling Block for 0.2ml. Tubes, Strips or 96-Well Plates.	1	-	-	-	-	Qiagen	Cat No. 9018905 Loading Block 96 x 0.2 ml Tubes Aluminum block for manual reaction set-up in a standard 8 x 12 array using 96 x 0.2 ml tubes Pack Size: 1 Each	75,000.00	75,000.00	-	-	-	-
RP/PWG/11	1.5 ml tube racks	0.2ml, 1.5ml, and 2ml Micro Centrifuge Polypropylene Test Tube Rack Holder	4	-	-	-	-	-	-	-	-	Corning USA	Tube Rack (1.5 ml)	1,800.00	7,200.00
RP/PWG/12	1.5 ml cryopreservation box	Water-repellant, fiberboard cryo box (2-inch) for 1-8ml tubes, Dimensions (L x W x H) 5 x 5 x 2 in. (12.7 x 12.7 x 5cm)	5	-	-	-	-	-	-	-	-	Corning USA	Cryopreservation box (1.5 ml)	4,800.00	24,000.00
RP/PWG/13	Cellulose Filters 0.45 micron	filter media; cellulose acetate+CN, pore size 0.45µm, size 47mm.	500 filters	No Quotation Received											
RP/PWG/14	Cellulose Filters 0.22 micron	Filter media; cellulose acetate+CN, pore size 0.22µm, size 47mm.	500 filters	No Quotation Received											
RP/PWG/15	Reverse osmosis filters		100	No Quotation Received											

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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi						
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total			
RP/PWGW/16	Medical scalpel (for biofilm extraction)	Handle rod, (medium and larger size) With disposable blades	5	No Quotation Received														
RP/PWGW/17	15 ml falcon tubes	Sterile Conical Centrifuge Tubes (polystyrene), with screw caps	500 tubes	-	-	-	-	-	-	-	-	Axygen USA	Falcon Tube (15 ml) 25 tubes	15,500.00	310,000.00			
RP/PWGW/18	50 ml falcon tubes	sterile 50mL Conical Centrifuge Tubes, Length (Metric) 115mm, with 33mm polyethylene flat-top screw caps	500 tubes	-	-	-	-	-	-	-	-	Axygen USA	Falcon Tube (50 ml) 25 tubes	19,300.00	386,000.00			
RP/PWGW/19	Petridishes	Sterile, 90mm in diameter	500 plates	-	-	-	-	-	-	-	-	Kartell Italy	Petridishes 500 pcs	8,250.00	8,250.00			
RP/PWGW/20	Plastic reagent bottles	Sterile with screw caps 1 liter plastic bottles for water sample collection	50 bottles	No Quotation Received														
RP/PWGW/21	PCR strips	Flat PCR Caps, strips of 8 strips	50 strips (400 tubes)	Axygen USA	0.2 ml Clear PCR for Real Time PCR (DNase RNase Pyrogen Free) 125 Strips	6,786.00	6,786.00	-	-	-	-	Axygen USA	PCR strips 125 Strips	1,700.00	1,700.00			
				<b>Total:</b>				<b>61,449.40</b>	<b>Total:</b>				<b>97,000.00</b>	<b>Total:</b>				<b>804,350.00</b>

  
 (Abdul Ghaffoor Nandhir)  
 Procurement Manager  
 USPCAS-W, MUET, Jamshoro

  
 (Engr. Muhammad Mashooque Siddiqui)  
 Director Procurement  
 University of Sindh


  
 (Prof. Dr. B.K. Lashari)  
 Project Director  
 USPCAS-W, MUET, Jamshoro


## BIDDERS QUALIFICATION REPORT

TENDER NAMELY

Name of work: **PROCUREMENT OF CHEMICALS, PLASTIC WARES & GLASS WARES FOR RESEARCH PROJECT.**

1	Name of Procuring Agency	US-Paksitan Centers for Advanced Studies in Water, MUET, Jamshoro		
2	Tender Reference Number	PD/USPCAS-W/MUET/JAM/-118 dt 23-11-2017 SPPRA Sr. #:		
3	Method of Procurement	Single Stage - One Envelope Procedure		
4	Name of Firm / Bidder	M/s Musaji Adam & Sons, Karachi	M/s Penicon, Karachi	M/s Briogene (Pvt) Ltd, Karachi
5	Registration with Income Tax Department	Yes	Yes	Yes
6	Registration with GST	Yes	Yes	Yes
7	Bank Statement showing Annual Turnover of Rs.500,000/-	Yes	Yes	Yes
8	Tender Fee / Cost of Bidding Document.	Submitted	Submitted	Submitted
9	5% Earnest money	Submitted	Submitted	Submitted
10	Firm has not been Blacklisted previously by any executing agency.	Not Blacklisted.	Not Blacklisted.	Not Blacklisted.
11	All documents / information furnished are true & correct.	Yes	Yes	Yes
12	Compliant / non-compliant.	Compliant	Compliant	Compliant
13	Relevant Experience five (05) years	Compliant	Compliant	Compliant

  
**Abdul Ghafoor Kandhir**  
Procurement Manager  
USPCAS-W, MUET, Jamshoro

  
**Prof. Dr. B. K. Lashari**  
Procurement Manager  
USPCAS-W, MUET, Jamshoro



  
**Engr. Muhammad Mashooque Siddiqui**  
Director Procurement,  
University of Sindh, Jamshoro


U.S.-Pakistan Center of Advanced Studies in Water (USPCAS-W)  
Mehran University of Engineering & Technology (MUET), Jamshoro


**Attendance Sheet**


Name of Work: Procurement of Chemicals, Plasticware & Glassware for Research Project at Mehran University of Engineering & Technology, Jamshoro

Dated: 19-Dec-2017

S #	Name of Vendor/ Company/ Contractor	Name of Company Representative	Signature	Remarks
1	M/s Musaji Adam & Sons, Karachi	Abdul Majid		—
2	M/s Penicon, Karachi	—	—	Bid received through courier
3	M/s Briogene (Pvt) Ltd., Karachi	Haseeb Rashid		—

  
Abdul Ghafoor Kandhir,  
Procurement Manager,  
USPCAS-W,  
MUET, Jamshoro

  
Engr. Muhammad Mashooque Siddiqui  
Director Procurements  
University of Sindh

  
Prof. Dr. B. K. Lashari  
Project Director,  
USPCAS-W,  
MUET, Jamshoro



MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY  
JAMSHORO 76062, SINDH, PAKISTAN



PROCUREMENT MANAGER  
U.S.-Pakistan Center for Advanced Studies in Water

No. PM/USPCAS-W/MUET/JAM/- 10  
Dated: 29-01-2018.

✓  
**The Assistant Director (Assessment)**  
Sindh Public Procurement Regulatory Authority  
(SPPRA), Services General Administration &  
Coordination Department, Government of Sindh,  
Barack No. 8, Sindh Secretariat No.04-A, Court Road,  
Karachi

**SUBJECT: NIT REF No. PM/USPCAS-W/MUET/JAM/-118, DATED 23-11-2017,**  
**(SR # 35431)**

Reference: No. A.D(ASMT) SPPRA/35431/17-18/4031 dated 16-01-2018

This is with reference to your letter mentioned under reference regarding the subjected matter, I am enclosing herewith para-wise replies of the observations as under:

- Clear recommendations of the technical experts of USPCAS-W for award of contract as per the comparative statement are prepared and enclosed herewith accordingly.
- As, there are technical terms of quantities for chemicals as informed by the technical experts. Subsequently, the same has been clarified in the recommendations / selected sheets attached.

In view of above, it is hoped that you will find the reply of observation in order It is further assured that the SPPRA Rules, 2010 (Amended 2017) are strictly followed by this University in letter and spirit.

**Procurement Manager,**  
**USPCAS-W,**  
**MUET, Jamshoro**

Copy f.w.cs to:

1. The Project Director, USPCAS-W, MUET, Jamshoro
2. Dr. Rasool Bux Mahar, Principal Investigator HEC Funded Project, USPCAS-W, MUET
3. The Secretary to Vice Chancellor, MUET, Jamshoro

SPPRA INWARD DIARY

NO : 2622

DATED : 29-01-18

**COMPARATIVE STATEMENT FOR PROCUREMENT OF CHEMICALS OF HEC RESEARCH PROJECT AT MUET, JAMSHORO**

Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Masaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total
RP/CH/01	DNeasy PowerBiofilm Kit (50)	Genomic DNA isolation kit from water bacterial biofilms, 50 reactions/kit	50 reactions (1 kit)	Norgen Canada	Part No. 62300 Biofilm DNA Isolation Kit 50 reactions/kit	Rs 46,337.22	Rs 46,337.22	Qiagen	Cat No. 24000-50 For the Isolation of high-quality, pure DNA from biofilm samples Pack Size: 50 reactions	Rs 65,000.00	Rs 65,000.00	-	-	-	-
RP/CH/02	100 bp DNA ladder (Marker)	Size: 50 µg / 500 µl, 11 bands, 500bp thick band.	1 vial (500 ul)	Norgen Canada	Part No. 11400 PCR Sizer 100 bp DNA Ladder (100 bp to 1000 bp) 100 LOADS or 600ul Opt: 1. Part No. 11500 LowRanger 100 bp DNA Ladder (100 bp to 2000 bp) 100 LOADS or 600ul Opt: 2. Part No. 11300 PCR Ranger 100 bp DNA Ladder (50 bp to 1000 bp) 100 LOADS or 600ul	Rs 7,800.00	Rs 7,800.00	Qiagen	Cat No. 239045 GelPilot 100 bp Plus Ladder (100) Ready-to-use DNA marker; 600ul (100 lanes), 11 fragments: 100-1500 bp Pack Size: 1 Vial (600 ul)	Rs 26,000.00	Rs 26,000.00	Bioline USA	100 bp DNA ladder (Marker) Kit	Rs 19,000.00	Rs 19,000.00
RP/CH/03	DNeasy PowerWater Kit	Genomic DNA extraction kit from water samples, 50 reactions/kit	50 reactions (1 kit)	Norgen Canada	Part No. 26450 Water RNA/DNA Purification Kit - 0.45 Opt: 1. Part No. 26400 Water RNA/DNA Purification Kit - 0.22 25 PREP	Rs 58,345.73	Rs 116,691.46	Qiagen	Cat No. 14900-50-NF DNeasy PowerWater Kit (50) For the Isolation of genomic DNA from filtered water samples, including turbid water Pack Size: 50 reactions	Rs 80,000.00	Rs 80,000.00	-	-	-	-
RP/CH/04	Casamino acid	hydrochloric acid hydrolysate of casein.	500g	BioBasic Canada	Part No. CB3060 Casamino acid	Rs 12,298.57	Rs 12,298.57	-	-	-	-	Daejung Korea	Casamino Acid, 500g	Rs 5,900.00	Rs 5,900.00
RP/CH/05	Dextrose	Synonyms: Dextrose, Formula: C6H12O6, Molecular weight: 180.16 g/mol.	500g	-	-	-	-	-	-	-	-	Daejung Korea	Dextrose, 500g	Rs 1,000.00	Rs 1,000.00
RP/CH/06	Soluble starch	Formula: C12H22O11 Formula Weight: 342.30 g/mol.	500g	BioBasic Canada	Part No. SB0904 Starch Soluble, High Purity	Rs 7,087.33	Rs 7,087.33	-	-	-	-	Daejung Korea	Soluble starch, 500g	Rs 2,400.00	Rs 2,400.00
RP/CH/07	Dipotassium phosphate	K <sub>2</sub> HPO <sub>4</sub> , 174.18 g/mol	500g	BioBasic Canada	Part No. PB0447 Potassium phosphate, dibasic, anhydrous, 500g	Rs 8,441.39	Rs 8,441.39	-	-	-	-	Daejung Korea	Dipotassium phosphate, 500g	Rs 1,500.00	Rs 1,500.00
RP/CH/08	Magnesium sulphate per 7H2O	Magnesium sulfate heptahydrate; Magnesium sulfate (1:1) heptahydrate; Magnesium sulfate heptahydrate; Magnesium sulfate Molecular Formula: H14MgO11S Molecular Weight: 246.466 g/mol	500g	BioBasic Canada	Part No. MRB0329 Magnesium Sulphate, heptahydrate, biotech, 500g	Rs 6,566.44	Rs 6,566.44	-	-	-	-	Daejung Korea	Magnesium sulphate, 500g	Rs 1,000.00	Rs 1,000.00
RP/CH/09	Sodium Pyruvate	Formula: C3H3NaO3 Formula Weight: 110.04 g/mol Storage Temperature: 2 - 8°C	500g	BioBasic Canada	Part No. SB0884 Sodium Pyruvate, 100g	Rs 7,280.84	Rs 36,404.20	-	-	-	-	Scharlau Spain	Sodium Pyruvate, 500g	Rs 28,700.00	Rs 28,700.00
RP/CH/10	Magnesium Sulphate	Formula: MgSO4 Formula Weight: 120.37 g/mol.	500g	BioBasic Canada	Part No. MN1988 Magnesium Sulphate, anhydrous, 250g	Rs 6,817.94	Rs 13,635.88	-	-	-	-	Daejung Korea	Magnesium Sulphate, 500g	Rs 1,600.00	Rs 1,600.00
RP/CH/11	NaOCl (Sodium hypochlorite solution)	Reagent grade, available chlorine 10-15 %, 425044-250ML.	500ml	-	-	-	-	-	-	-	-	Daejung Korea	NaOCl (Sodium hypochlorite solution), 500 ml	Rs 600.00	Rs 600.00
RP/CH/12	Liquid NH3	Formula: H3N, Formula Weight: 17.03 g/mol.	500 ml	-	-	-	-	-	-	-	-	Daejung Korea	Liquid NH3 - Ammonia, 500ml	Rs 600.00	Rs 600.00
RP/CH/13	Free chlorine	Tablets, packaging ampule of 1 x 2 mL.	1 pack	-	-	-	-	-	-	-	-	No quotation received			
RP/CH/14	BaClight Bacterial Viability Kit	To check the viable bacterial cells in water samples, and biofilm samples.	1 kit for 100 isolates	-	-	-	-	-	-	-	-	No quotation received			

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Item Code	Name of Equipment	Description / Specification of Items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total
RP/CH/15	m-Endo Agar LES	Lactose 9.4 g Non-Denatured Ethanol, 20 mL Tryptose 7.5 g Enzymatic Digest of Casein 3.7 g Enzymatic Digest of Animal Tissue 3.7 g Sodium Chloride 3.7 g Potassium Phosphate, dibasic 3.3 g Sodium Sulfite 1.6 g Yeast Extract 1.2 g Potassium Phosphate, monobasic 1.0 g Basic Fuchsin 0.8 g Sodium Deoxycholate 0.1 g Sodium Lauryl Sulfate 0.05 g Agar 15 g Final pH: 7.2 ± 0.2 at 25°C	1 kg	-	-	-	-	-	-	-	-	Oxoid UK	m-Endo Agar LES 500g	Rs 18,000.00	Rs 36,000.00
RP/CH/16	R2A Agar	packaging 500 g, solubility 18.2 g/l, shipped in ambient, storage temp. Store at +15°C to +25°C.	1 kg	-	-	-	-	-	-	-	-	Oxoid UK	R2A Agar 500g	Rs 14,300.00	Rs 29,000.00
RP/CH/17	m-FC Agar, Vegitone	Composition: Ingredients Grams/Litre Tryptose (vegetable) 10.0, Proteose Peptone (vegetable) 5.0, Yeast extract 3.0, Lactose 12.5, Synthetic detergent 1.5, Sodium chloride 5.0, Aniline blue 0.1, Agar 15.0, Final pH 7.4 +/- 0.2 at 25°C.	1 kg	-	-	-	-	-	-	-	-	Oxoid UK	m-FC Agar, Vegitone 500g	Rs 24,000.00	Rs 48,000.00
RP/CH/18	EMB agar	EOSIN METHYLENE BLUE AGAR (MODIFIED) LEVINE	1 kg	-	-	-	-	-	-	-	-	Oxoid UK	EMB Agar 500g	Rs 8,500.00	Rs 17,000.00
RP/CH/19	Agar Modified MTEC	Base for the Chromogenic Detection and Enumeration of E. coli in water by the membrane filter technique	500 g	No quotation received											
RP/CH/20	Tris HCl	Molecular Biology Grade, Formula Weight: 157.56 Purity: ≥99.0%	500g	Biobasic Canada	Part No. TB0103 Tris hydrochloride, 250g	Rs 7,522.87	Rs 15,045.74	-	-	-	-	Scharlau Spain	Tris HCl 100g	Rs 3,400.00	Rs 17,000.00
RP/CH/21	EDTA	Molecular biology grade, Molecular Weight: 292.24	200g	Biobasic Canada	Part No. EB0107 EDTA, Free acid, Ultra Pure, 500g	Rs 6,972.24	Rs 6,972.24	-	-	-	-	Scharlau Spain	EDTA 1kg	Rs 23,800.00	Rs 23,800.00
RP/CH/22	Glacial acetic acid	Molecular biology grade, Assay ≥99.85%, Molecular Weight 60.05	500 ml	-	-	-	-	-	-	-	-	Daejung Korea	Glacial Acetic Acid, 500ml	Rs 1,000.00	Rs 1,000.00
RP/CH/23	6X gel loading dye	Label or Dye: Bromophenol Blue, Gel Compatibility: Acrylamide Gels, Agarose Gels.	1 vial (1 ml)	Norgen Canada	Part No. 28151 6X Bromophenol Blue/Xylene Cyanol DNA Loading Dye 5 x 1ml	Rs 10,500.00	Rs 10,500.00	Qiagen	Cat No. 239901 GelPilot DNA Loading Dye 5x Pack Size: 6x500 ul	Rs 10,000.00	Rs 10,000.00	-	-	-	-
RP/CH/24	VisualNA (DNA Staining Dye)	It replaces Ethidium Bromide (toxic, potential mutagen) for visualization of DNA or RNA in Agarose gel. VisualNA is non-carcinogenic and causes significantly fewer mutations in the Ames-test and tests negative in both the mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test.	2 vials of 1 ml	Biobasic Canada	DTR1414 Green - DNA Dye, ready to use 1.5ml	Rs 14,247.38	Rs 14,247.38	-	-	-	-	-	-	-	-
RP/CH/25	Absolute ethanol	Assay ≥99.8% (GC), Molecular Weight 46.07	5 liter	-	-	-	-	-	-	-	-	-	Absolute E 2.5L	Rs 7,500.00	Rs 15,000.00
RP/CH/26	Sybergreen PCR master mix	PCR master mix with dNTPS, PCR buffer, MgCl2, high fidelity polymerase, Sybergreen for qPCR experiments	1 kit for 200 reactions	Affymetrix	Part No. 75600 VeriQuest SYBR Green qPCR Master Mix (2X) 200RXN	Rs 42,000.00	Rs 42,000.00	Qiagen	Cat No. 208052 QuantiNova SYBR Green PCR Kit (100) For 100 x 20 ul reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 ul QuantiNova yellow Template Dilution Buffer, 250 ul QN ROX Reference Dye, 1.9 ml Water Pack Size: 100 Reactions	Rs 28,000.00	Rs 56,000.00	Bioline USA	Sybergreen PCR mastermix	Rs 85,000.00	Rs 85,000.00

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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total
RP/CH/27	PCR grade water (Nuclease free water)	DNase RNase Free water, for Molecular Biology, or Molecular Biology grade	100 ml	IDT	Part No. IDT NUCLEASUE-FREE-WATER 1 liter	Rs 10,800.00	Rs 10,800.00	Qiagen	Cat No. 129114 Nuclease-Free Water (10 x 50 ml) 10 x 50 ml nuclease-free water prepared without the use of diethylpyrocarbonate (DEPC); provided in 10 x 50 plastic tubes Pack Size: 500 ml	Rs 30,000.00	Rs 30,000.00	Hyclone USA	PCR grade water (Nuclease free water) 100 ml	Rs 3,500.00	Rs 3,500.00
RP/CH/28	16S V4-V5 FW	AYTGGGYDTAAAGNG, 25nm.	1	IDT DNA	AYTGGGYDTAAAGNG	Rs 540.00	Rs 540.00	-	-	-	-	-	-	-	-
RP/CH/29	16S V4-V5 RV	CCGTCAATYYTTTRAGTTT, 25nm.	1	IDT DNA	CCGTCAATYYTTTRAGTTT	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/30	chl1-(class1) FW	GGCATCCAAGCAGCAAG, 25nm.	1	IDT DNA	GGCATCCAAGCAGCAAG	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-
RP/CH/31	chl1-(class1) RV	AAGCAGACTTGACTGA, 25nm.	1	IDT DNA	AAGCAGACTTGACTGA	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-
RP/CH/32	sul1FW	CAGCGCTATGCGCTCAAG, 25nm.	1	IDT DNA	CAGCGCTATGCGCTCAAG	Rs 648.00	Rs 648.00	-	-	-	-	-	-	-	-
RP/CH/33	sul1 RV	ATCCCGCTGCGCTGAGT, 25nm	1	IDT DNA	ATCCCGCTGCGCTGAGT	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-
RP/CH/34	sul2 FW	TCATCTGCCAAACTCGTGA, 25nm.	1	IDT DNA	TCATCTGCCAAACTCGTGA	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/35	sul2 RV	GTCAAAGAAGCCGCAATG, 25nm	1	IDT DNA	GTCAAAGAAGCCGCAATG	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/36	sulA-folP-01 FW	CAGGCTCGTAAATTGATAGCAGAAG, 25nm	1	IDT DNA	CAGGCTCGTAAATTGATAGCAGAAG	Rs 900.00	Rs 900.00	-	-	-	-	-	-	-	-
RP/CH/37	sulA-folP-01 RV	CTTTCCTTGCGAATCGCTTT, 25nm	1	IDT DNA	CTTTCCTTGCGAATCGCTTT	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/38	sulA-folP-03 FW	GCGATTCCGAAGGAAAGTGA, 25nm.	1	IDT DNA	GCGATTCCGAAGGAAAGTGA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/39	sulA-folP-03 RV	CACATGGCCATTTTTCATC, 25nm	1	IDT DNA	CACATGGCCATTTTTCATC	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/40	tnpA-01 FW	CATCATCGGACGGACAGAATT, 25nm.	1	IDT DNA	CATCATCGGACGGACAGAATT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/41	tnpA-01 RV	GTCGGAGATGTGGGTGTAGAAAGT, 25nm.	1	IDT DNA	GTCGGAGATGTGGGTGTAGAAAGT	Rs 864.00	Rs 864.00	-	-	-	-	-	-	-	-
RP/CH/42	tnpA-02 FW	GGGCGGGTCTGATTGAAA, 25nm.	1	IDT DNA	GGGCGGGTCTGATTGAAA	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-
RP/CH/43	tnpA-02 RV	GTGGGCGGGATCTGCTT, 25nm.	1	IDT DNA	GTGGGCGGGATCTGCTT	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-
RP/CH/44	tnpA-03 FW	AATTGATGCGGACGGCTTAA, 25nm.	1	IDT DNA	AATTGATGCGGACGGCTTAA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/45	tnpA-03 RV	TCACCAAAGTGTATGGAGTCGTT, 25nm.	1	IDT DNA	TCACCAAAGTGTATGGAGTCGTT	Rs 900.00	Rs 900.00	-	-	-	-	-	-	-	-
RP/CH/46	tnpA-04 FW	CCGATCACGAAAGCTCAA, 25nm.	1	IDT DNA	CCGATCACGAAAGCTCAA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/47	tnpA-04 RV	GGCTCGCATGACTCGAATC, 25nm.	1	IDT DNA	GGCTCGCATGACTCGAATC	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/48	tnpA-05 FW	GCCGCACTGCTGATTTTATC, 25nm.	1	IDT DNA	GCCGCACTGCTGATTTTATC	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/49	tnpA-05 RV	GCGGGATCTGCCACTTCTT, 25nm.	1	IDT DNA	GCGGGATCTGCCACTTCTT	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/50	tnpA-07 FW	GAAACCGATGCTACAATCAATT, 25nm	1	IDT DNA	GAAACCGATGCTACAATCAATT	Rs 936.00	Rs 936.00	-	-	-	-	-	-	-	-
RP/CH/51	tnpA-07 RV	CAGCACCGTTGCAAGTAA, 25nm.	1	IDT DNA	CAGCACCGTTGCAAGTAA	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/52	Tp614 FW	GGAAATCAACGGCATCCAGT, 25nm.	1	IDT DNA	GGAAATCAACGGCATCCAGT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/53	Tp614 RV	CATCCATGCGCTTTTGTCT, 25nm.	1	IDT DNA	CATCCATGCGCTTTTGTCT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/54	vanA FW	AAAAGGCTCTGAAAACGAGTTAT, 25nm.	1	IDT DNA	AAAAGGCTCTGAAAACGAGTTAT	Rs 864.00	Rs 864.00	-	-	-	-	-	-	-	-
RP/CH/55	vanA RV	CGGCCGTATCTTGAAAAACAT, 25nm.	1	IDT DNA	CGGCCGTATCTTGAAAAACAT	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-

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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total
RP/CH/56	vanB-01 FW	TTGTCCGGCGAAGTGGATCA, 25nm.	1	IDT DNA	TTGTCCGGCGAAGTGGATCA	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/57	vanB-01 RV	AGCCTTTTTCGGCTCGTT, 25nm.	1	IDT DNA	AGCCTTTTTCGGCTCGTT	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/58	vanB-02 FW	CCGGTCGAGGAACGAAATC, 25nm.	1	IDT DNA	CCGGTCGAGGAACGAAATC	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/59	vanB-02 RV	TCCTCCTGCAAAAAAGATCAAC, 25nm.	1	IDT DNA	TCCTCCTGCAAAAAAGATCAAC	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/60	vanC-01 FW	ACAGGGATTGGCTATGAACCAT, 25nm.	1	IDT DNA	ACAGGGATTGGCTATGAACCAT	Rs 792.00	Rs 792.00	-	-	-	-	-	-	-	-
RP/CH/61	vanC-01 RV	TGACTGGCGATGATTTGACTATG, 25nm.	1	IDT DNA	TGACTGGCGATGATTTGACTATG	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/62	vanC-03 FW	AAATCAATACTATGCCGGGCTT, 25nm.	1	IDT DNA	AAATCAATACTATGCCGGGCTT	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/63	vanC-03 RV	CCGACCGCTGCCATCA, 25nm.	1	IDT DNA	CCGACCGCTGCCATCA	Rs 576.00	Rs 576.00	-	-	-	-	-	-	-	-
RP/CH/64	vanC1 FW	AGGCGATAGCGGGTATTGAA, 25nm.	1	IDT DNA	AGGCGATAGCGGGTATTGAA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/65	vanC1 RV	CAATCGTCAATTGCTCATTTC, 25nm.	1	IDT DNA	CAATCGTCAATTGCTCATTTC	Rs 792.00	Rs 792.00	-	-	-	-	-	-	-	-
RP/CH/66	vanB-01 FW	GGAAAAAGCAACTCCATCTCTGA, 25nm.	1	IDT DNA	GGAAAAAGCAACTCCATCTCTGA	Rs 864.00	Rs 864.00	-	-	-	-	-	-	-	-
RP/CH/67	vanB-01 RV	TCCTGGCATAACAGTAACATTCTGA, 25nm.	1	IDT DNA	TCCTGGCATAACAGTAACATTCTGA	Rs 900.00	Rs 900.00	-	-	-	-	-	-	-	-
RP/CH/68	vgaA-01 FW	CGAGTATTGTGGAAAGCAGTAGTT, 25nm.	1	IDT DNA	CGAGTATTGTGGAAAGCAGTAGTT	Rs 900.00	Rs 900.00	-	-	-	-	-	-	-	-
RP/CH/69	vgaA-01 RV	CCCGTACCGTTAGAGCCGATA, 25nm.	1	IDT DNA	CCCGTACCGTTAGAGCCGATA	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/70	vgaA-02 FW	GACGGGTATTGTGGAAAGCAA, 25nm.	1	IDT DNA	GACGGGTATTGTGGAAAGCAA	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/71	vgaA-02 RV	TTTCTGTACCATTAGATCCGATAAT, 25nm.	1	IDT DNA	TTTCTGTACCATTAGATCCGATAAT	Rs 972.00	Rs 972.00	-	-	-	-	-	-	-	-
RP/CH/72	yidY_mdil-01 FW	GCAGTTGCATATCGCCTTCTC25nm.	1	IDT DNA	GCAGTTGCATATCGCCTTCTC	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/73	yidY_mdil-01 RV	CTTCCCGGCAAAACAGCAT, 25nm.	1	IDT DNA	CTTCCCGGCAAAACAGCAT	Rs 648.00	Rs 648.00	-	-	-	-	-	-	-	-
RP/CH/74	yidY_mdil-02 FW	TGCTGATCGGGATTCTGATTG25nm.	1	IDT DNA	TGCTGATCGGGATTCTGATTG	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/75	yidY_mdil-02 RV	CAGGCGCGACGAACATAAT, 25nm.	1	IDT DNA	CAGGCGCGACGAACATAAT	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/76	vanG FW	ATTTGAATTGGCAGGTATACAGGTTA, 25nm.	1	IDT DNA	ATTTGAATTGGCAGGTATACAGGTTA	Rs 936.00	Rs 936.00	-	-	-	-	-	-	-	-
RP/CH/77	vanG RV	TGATTTGCTTTTGCCATACATAATGC, 25nm.	1	IDT DNA	TGATTTGCTTTTGCCATACATAATGC	Rs 972.00	Rs 972.00	-	-	-	-	-	-	-	-
RP/CH/78	vanHB FW	GAGGTTCCGAGGCGACAA, 25nm.	1	IDT DNA	GAGGTTCCGAGGCGACAA	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/79	vanHB RV	CTCTCGGCGCAGTCGTAT, 25nm.	1	IDT DNA	CTCTCGGCGCAGTCGTAT	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/80	vanHD FW	GTGGCCGATTATACCGTCATG, 25nm.	1	IDT DNA	GTGGCCGATTATACCGTCATG	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/81	vanHD RV	CGCAGGTCATTACGGCAAT, 25nm.	1	IDT DNA	CGCAGGTCATTACGGCAAT	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/82	tetA-01 FW	GCTGTTTGTCTGCCGAAA, 25nm.	1	IDT DNA	GCTGTTTGTCTGCCGAAA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/83	tetA-01 RV	GGTTAAGTTCCTTGAACGCAAACT, 25nm.	1	IDT DNA	GGTTAAGTTCCTTGAACGCAAACT	Rs 864.00	Rs 864.00	-	-	-	-	-	-	-	-
RP/CH/84	tetB-01 FW	AGTGCGCTTTGGATGCTGTA, 25nm.	1	IDT DNA	AGTGCGCTTTGGATGCTGTA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/85	tetB-01 RV	AGCCCCAGTAGCTCCTGTGA, 25nm.	1	IDT DNA	AGCCCCAGTAGCTCCTGTGA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-

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Item Code	Name of Equipment	Description / Specification of Items	Qty	M/s Fenicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi			
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total
RP/CH/86	tetC-01 FW	CATATCGCAATACATGCGAAAAA, 25nm.	1	IDT DNA	CATATCGCAATACATGCGAAA	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/87	tetC-01 RV	AAAGCCGCGGTAAATAGCAA25nm	1	IDT DNA	AAAGCCGCGGTAAATAGCAA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/88	tetD-01 FW	TGCCGCGTTTGATTACACA, 25nm.	1	IDT DNA	TGCCGCGTTTGATTACACA	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/89	tetD-01 RV	CACCAGTGATCCCGGAGATAA, 25nm.	1	IDT DNA	CACCAGTGATCCCGGAGATAA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/90	tetE FW	TTGGCGTGATGCAATGAT, 25nm.	1	IDT DNA	TTGGCGTGATGCAATGAT	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/91	tetE RV	CGACGACCTATGCGATCTGA, 25nm.	1	IDT DNA	CGACGACCTATGCGATCTGA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/92	tetG-01 FW	TCAACCATTGCCGATTCGA, 25nm.	1	IDT DNA	TCAACCATTGCCGATTCGA	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-
RP/CH/93	tetG-01 RV	TGGCCCGCAATCATG, 25nm.	1	IDT DNA	TGGCCCGCAATCATG	Rs 576.00	Rs 576.00	-	-	-	-	-	-	-	-
RP/CH/94	tetH FW	TTTGGGTCACTTACCAGCATTAA, 25nm.	1	IDT DNA	TTTGGGTCACTTACCAGCATTAA	Rs 864.00	Rs 864.00	-	-	-	-	-	-	-	-
RP/CH/95	tetH RV	TTGCGCATTATCATCGACAGA, 25nm.	1	IDT DNA	TTGCGCATTATCATCGACAGA	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/96	tetJ FW	GGGTGCCGATTAGATTACCT, 25nm.	1	IDT DNA	GGGTGCCGATTAGATTACCT	Rs 766.00	Rs 766.00	-	-	-	-	-	-	-	-
RP/CH/97	tetJ RV	TCGTCCAATGTAGAGCATCCATA, 25nm.	1	IDT DNA	TCGTCCAATGTAGAGCATCCATA	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/98	tetK FW	CAGCAGTCATTGGAAAAATTACTGAT TATA, 25nm	1	IDT DNA	CAGCAGTCATTGGAAAAATTACTGATTATA	Rs 1,080.00	Rs 1,080.00	-	-	-	-	-	-	-	-
RP/CH/99	tetK RV	CCTTGTACTAACCTACCAAAAATCAA AATA, 25nm	1	IDT DNA	CCTTGTACTAACCTACCAAAAATCAAATA	Rs 1,080.00	Rs 1,080.00	-	-	-	-	-	-	-	-
RP/CH/100	tetL-01 FW	AGCCCGATTTATTCAAGGAATTG, 25nm.	1	IDT DNA	AGCCCGATTTATTCAAGGAATTG	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/101	tetL-01 RV	CAAATGCTTCCCCCTGTCT, 25nm.	1	IDT DNA	CAAATGCTTCCCCCTGTCT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/102	tetM-01 FW	CATCATAGACACGCCAGGCATAT, 25nm.	1	IDT DNA	CATCATAGACACGCCAGGCATAT	Rs 864.00	Rs 864.00	-	-	-	-	-	-	-	-
RP/CH/103	tetM-01 RV	CGCCATCTTTGCGAAAAATCA25nm.	1	IDT DNA	CGCCATCTTTGCGAAAAATCA	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/104	tetO-01 FW	ATGTGGATACTACAACGCATGAGATT, 25nm.	1	IDT DNA	ATGTGGATACTACAACGCATGAGATT	Rs 936.00	Rs 936.00	-	-	-	-	-	-	-	-
RP/CH/105	tetO-01 RV	TGCCTCCACATGATATTTTCCT, 25nm.	1	IDT DNA	TGCCTCCACATGATATTTTCCT	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/106	tetPA FW	AGTTGCAGATGTGTATAGTCGTAAC TATCTAAT, 25nm	1	IDT DNA	AGTTGCAGATGTGTATAGTCGTAAC TAACTAAT	Rs 1,224.00	Rs 1,224.00	-	-	-	-	-	-	-	-
RP/CH/107	tetPA RV	TGCTACAAGTACGAAAACAAAAC TAA, 25nm.	1	IDT DNA	TGCTACAAGTACGAAAACAAAAC TAA	Rs 1,008.00	Rs 1,008.00	-	-	-	-	-	-	-	-
RP/CH/108	tetPB-01 FW	ACACCTGGACACGCTGATTT25nm.	1	IDT DNA	ACACCTGGACACGCTGATTT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/109	tetPB-01 RV	ACCGTCTAGAACGCGGAATG, 25nm.	1	IDT DNA	ACCGTCTAGAACGCGGAATG	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/110	tetQ FW	CGCCTCAGAAGTAAGTTCACACTA AG, 25nm.	1	IDT DNA	CGCCTCAGAAGTAAGTTCACACTAAG	Rs 1,008.00	Rs 1,008.00	-	-	-	-	-	-	-	-
RP/CH/111	tetQ RV	TCGTTTCATGCGGATATTATCAGAA T, 25nm.	1	IDT DNA	TCGTTTCATGCGGATATTATCAGAA T	Rs 900.00	Rs 900.00	-	-	-	-	-	-	-	-
RP/CH/112	mexA FW	AGGACAACGCTATGCAACGAA, 25nm.	1	IDT DNA	AGGACAACGCTATGCAACGAA	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-
RP/CH/113	mexA RV	CCGGAAAAGGCCGAAAT, 25nm.	1	IDT DNA	CCGGAAAAGGCCGAAAT	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-
RP/CH/114	mexD FW	TTGCCACTGGCTTTCATGAG, 25nm.	1	IDT DNA	TTGCCACTGGCTTTCATGAG	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-
RP/CH/115	mexD RV	CACTGCGGAGAAGTGTCTGTAGA, 25nm.	1	IDT DNA	CACTGCGGAGAAGTGTCTGTAGA	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/116	mexE FW	GGTCAGCACCGACAAGGTCTAC, 25nm.	1	IDT DNA	GGTCAGCACCGACAAGGTCTAC	Rs 792.00	Rs 792.00	-	-	-	-	-	-	-	-
RP/CH/117	mexE RV	AGCTCGACGTAAGGAAACAC, 25nm.	1	IDT DNA	AGCTCGACGTAAGGAAACAC	Rs 828.00	Rs 828.00	-	-	-	-	-	-	-	-
RP/CH/118	mexF FW	CCGCGAGAAGGCCAAGA, 25nm.	1	IDT DNA	CCGCGAGAAGGCCAAGA	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-

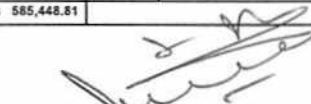
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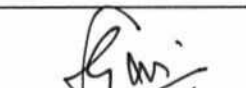
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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Fenicon, Karachi				M/s Briogne (Pvt) Ltd., Karachi				M/s Misaji Adam & Sons (Pvt) Ltd, Karachi					
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total		
RP/CH/119	mexF RV	TTGAGTTCGGCGGTGATGA, 25nm.	1	IDT DNA	TTGAGTTCGGCGGTGATGA	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-		
RP/CH/120	ampC-01 FW	TGGCGTATCGGGTCAATGT, 25nm.	1	IDT DNA	TGGCGTATCGGGTCAATGT	Rs 684.00	Rs 684.00	-	-	-	-	-	-	-	-		
RP/CH/121	ampC-01 RV	CTCCACGGGCCAGTTGAG, 25nm.	1	IDT DNA	CTCCACGGGCCAGTTGAG	Rs 648.00	Rs 648.00	-	-	-	-	-	-	-	-		
RP/CH/122	ampC-02 FW	GCAGCACGCCCGTAA, 25nm.	1	IDT DNA	GCAGCACGCCCGTAA	Rs 576.00	Rs 576.00	-	-	-	-	-	-	-	-		
RP/CH/123	ampC-02 RV	TGTACCCATGATGCGCGTACT25nm.	1	IDT DNA	TGTACCCATGATGCGCGTACT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-		
RP/CH/124	ampC-04 FW	TCCGGTGACGCGACAGA, 25nm.	1	IDT DNA	TCCGGTGACGCGACAGA	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-		
RP/CH/125	ampC-04 RV	CAGCACGCCGGTGAAAGT, 25nm.	1	IDT DNA	CAGCACGCCGGTGAAAGT	Rs 648.00	Rs 648.00	-	-	-	-	-	-	-	-		
RP/CH/126	ampC-05 FW	CTGTTTCGAGTCGGGTTCTATAAGTAA A, 25nm	1	IDT DNA	CTGTTTCGAGTCGGGTTCTATAAGTAA	Rs 972.00	Rs 972.00	-	-	-	-	-	-	-	-		
RP/CH/127	ampC-05 RV	CAGTATCTGGTCACCGGATCGT, 25nm.	1	IDT DNA	CAGTATCTGGTCACCGGATCGT	Rs 792.00	Rs 792.00	-	-	-	-	-	-	-	-		
RP/CH/128	ampC-06 FW	CCGCTCAAGCTGGACCATAC, 25nm.	1	IDT DNA	CCGCTCAAGCTGGACCATAC	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-		
RP/CH/129	ampC-06 RV	CCATATCTGCACGTTGGTTT, 25nm.	1	IDT DNA	CCATATCTGCACGTTGGTTT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-		
RP/CH/130	blaSHV-01 FW	TCCCATGATGAGCACCTTTAAA, 25nm	1	IDT DNA	TCCCATGATGAGCACCTTTAAA	Rs 792.00	Rs 792.00	-	-	-	-	-	-	-	-		
RP/CH/131	blaSHV-01 RV	TTCGTCACCGCATCCA, 25nm.	1	IDT DNA	TTCGTCACCGCATCCA	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-		
RP/CH/132	blaTEM FW	AGCATCTTACGGATGGCATGA, 25nm	1	IDT DNA	AGCATCTTACGGATGGCATGA	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-		
RP/CH/133	blaTEM RV	TCCTCCGATCGTTGTCAGAAAGT, 25nm.	1	IDT DNA	TCCTCCGATCGTTGTCAGAAAGT	Rs 792.00	Rs 792.00	-	-	-	-	-	-	-	-		
RP/CH/134	spcN-01 FW	AAAAGTTCGATGAAACACGCTAT, 25nm.	1	IDT DNA	AAAAGTTCGATGAAACACGCTAT	Rs 864.00	Rs 864.00	-	-	-	-	-	-	-	-		
RP/CH/135	spcN-01 RV	TCCAGTGGTAGTCCCCGAATC, 25nm.	1	IDT DNA	TCCAGTGGTAGTCCCCGAATC	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-		
RP/CH/136	spcN-02 FW	CAGAACTTCTCTGAAAAGTTTGATGA A, 25nm.	1	IDT DNA	CAGAACTTCTCTGAAAAGTTTGATGA	Rs 972.00	Rs 972.00	-	-	-	-	-	-	-	-		
RP/CH/137	spcN-02 RV	CGCAGACACGCCGAATC, 25nm.	1	IDT DNA	CGCAGACACGCCGAATC	Rs 612.00	Rs 612.00	-	-	-	-	-	-	-	-		
RP/CH/138	str FW	AATGAGTTTTGGAGTGCTCAACGTA, 25nm.	1	IDT DNA	AATGAGTTTTGGAGTGCTCAACGTA	Rs 936.00	Rs 936.00	-	-	-	-	-	-	-	-		
RP/CH/139	str RV	AATCAAAACCCCTATTAAGCCAAT, 25nm.	1	IDT DNA	AATCAAAACCCCTATTAAGCCAAT	Rs 900.00	Rs 900.00	-	-	-	-	-	-	-	-		
RP/CH/140	strA FW	CCGGTGGCATTGAGAAAA, 25nm.	1	IDT DNA	CCGGTGGCATTGAGAAAA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-		
RP/CH/141	strA RV	GTGGCTAACCTGCGAAAA, 25nm.	1	IDT DNA	GTGGCTAACCTGCGAAAA	Rs 720.00	Rs 720.00	-	-	-	-	-	-	-	-		
RP/CH/142	strB FW	GCTCGGTCGTGAGAACATCT, 25nm.	1	IDT DNA	GCTCGGTCGTGAGAACATCT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-		
RP/CH/143	strB RV	CAATTCGGTCGCTGGTAGT 25nm.	1	IDT DNA	CAATTCGGTCGCTGGTAGT	Rs 756.00	Rs 756.00	-	-	-	-	-	-	-	-		
<b>Total:</b>							<b>Rs 585,448.81</b>					<b>Total:</b>	<b>Rs 267,000.00</b>				


  
 (Abdul Ghafoor Kandhir)  
 Procurement Manager  
 USPCAS-W, MUET, Jamshoro.

  
 (Engr. Muhammad Mashouqe Siddique)  
 Director Procurement  
 University of Sindh, Jamshoro

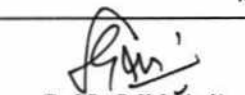
  
 (Prof. Dr. B.K. Lashari.)  
 Project Director  
 USPCAS-W, MUET, Jamshoro.

**COMPARATIVE STATEMENT FOR PROCUREMENT OF PLASTICWARE & GLASSWARE OF HEC RESEARCH PROJECT AT MUET, JAMSHORO**

Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				M/s Briogene (Pvt) Ltd., Karachi				M/s Musaji Adam & Sons (Pvt) Ltd, Karachi						
				Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total	Make & Model	Specification	Unit Rate	Total			
RP/PWGW/01	1.5 ml centrifuge tubes	Microcentrifuge Tube, 1.5ml, Attached Locking Snap Cap, RNase, DNase, Pyrogen, ATP and Human DNA Free, Sterile	500 tubes	BioBasic Canada	BT620-NS 1.5 ml Centrifuge tube 1000/Pack	Rs 6,318.00	Rs 6,318.00	--	--	--	--	Asygen USA	Microcentrifuge Tube, (1.5 ml) 500 pcs	Rs 5,500.00	Rs 5,500.00			
RP/PWGW/02	Tips boxes 10 µl	Sterilized, volume range 0.1-10µl	10 boxes	BioBasic Canada	FT215-RNS 0.1-10 ul Filter Tip, Natural, Sterile, 96/RACK	Rs 947.00	Rs 9,470.00	--	--	--	--	Coming USA	Tip Box 10 ul 96 tips	Rs 1,200.00	Rs 12,000.00			
RP/PWGW/03	Tips boxes 100 µl	Sterilized, volume range 10-100µl	10 boxes	BioBasic Canada	FT226-RNS 10-200ul Filter Tip, Natural, Sterile, 96/RACK	Rs 1,006.00	Rs 10,060.00	--	--	--	--	Coming USA	Tip Box 100 ul 96 tips	Rs 1,000.00	Rs 10,000.00			
RP/PWGW/04	Tips boxes 1000 µl	Sterilized, volume range 100-1000µl	10 boxes	BioBasic Canada	FT222RS 100-1000ul Filter Tip, Natural, Sterile, 100/RACK	Rs 1,076.00	Rs 10,760.00	--	--	--	--	Coming USA	Tip Box 1000 ul 100 tips	Rs 1,150.00	Rs 11,500.00			
RP/PWGW/05	Parafilm	roll size=4 in. x 125 ft.	4	BioBasic Canada	PF002 Parafilm, 4X125'	Rs 9,632.60	Rs 38,530.40	--	--	--	--	--	Parafilm 4inch x 124ft	Rs 4,500.00	Rs 18,000.00			
RP/PWGW/06	Tissues roll	Layer: 2 Ply, Without Flavor, Recycled Pulp	10	No Quotation Received														
RP/PWGW/07	Powder-free latex gloves	Latex, 3 boxes, Medium and 3 small size gloves	6	No Quotation Received														
RP/PWGW/08	Aluminium foil	Diamond aluminium foil, 37.5 sq ft.	5	--	--	--	--	--	--	--	--	Pak-made	Aluminum Foil	Rs 480.00	Rs 2,400.00			
RP/PWGW/09	0.2 ml PCR tubes	0.2 ml thin-walled tubes with clear flat cap, for real time PCR experiments	total 100 pieces or 5 packs	BioBasic Canada	BP541-S100 0.2 ml PCR Tube, Flat Cap, Sterile 10x100/ BAG	Rs 6,786.00	Rs 6,786.00	Qiagen	Cat No. 981005 PCR Tubes, 0.2 ml (1000) 1000 thin-walled tubes for 1000 reactions of 20-25 ul Pack Size: 1000	Rs 22,000.00	Rs 22,000.00	Asygen USA	PCR Tubes (0.2 ml) 1000 pcs	Rs 7,800.00	Rs 7,800.00			
RP/PWGW/10	Ice block (for 0.2 ml tubes)	Aluminum Cooling Block for 0.2mL Tubes, Strips or 96-Well Plates.	1	--	--	--	--	Qiagen	Cat No. 9018905 Loading Block 96 x 0.2 ml Tubes Aluminum block for manual reaction set-up in a standard 8 x 12 array using 96 x 0.2 ml tubes Pack Size: 1 Each	Rs 75,000.00	Rs 75,000.00	--	--	--	--			
RP/PWGW/11	1.5 ml tube racks	0.2ml, 1.5ml, and 2ml Micro Centrifuge Polypropylene Test Tube Rack Holder	4	--	--	--	--	--	--	--	--	Coming USA	Tube Rack (1.5 ml)	Rs 1,800.00	Rs 7,200.00			
RP/PWGW/12	1.5 ml cryopreservation box	Water-repellant, fiberboard cryo box (2-inch) for 1-8ml tubes, Dimensions (L x W x H) 5 x 5 x 2 in. (12.7 x 12.7 x 5cm)	5	--	--	--	--	--	--	--	--	Coming USA	Cryopreservation box (1.5 ml)	Rs 4,800.00	Rs 24,000.00			
RP/PWGW/13	Cellulose Filters 0.45 micron	filter media; cellulose acetate+CN, pore size 0.45µm, size 47mm.	500 filters	No Quotation Received														
RP/PWGW/14	Cellulose Filters 0.22 micron	Filter media; cellulose acetate+CN, pore size 0.22µm, size 47mm.	500 filters	No Quotation Received														
RP/PWGW/15	Reverse osmosis filters		100	No Quotation Received														
RP/PWGW/16	Medical scalpel (for biofilm extraction)	Handle rod, (medium and larger size) With disposable blades	5	No Quotation Received														
RP/PWGW/17	15 ml falcon tubes	Sterile Conical Centrifuge Tubes (polystyrene), with screw caps	500 tubes	--	--	--	--	--	--	--	--	Asygen USA	Falcon Tube (15 ml) 25 tubes	Rs 15,500.00	Rs 310,000.00			
RP/PWGW/18	50 ml falcon tubes	sterile 50mL Conical Centrifuge Tubes, Length (Metric) 115mm, with 33mm polyethylene flat-top screw caps	500 tubes	--	--	--	--	--	--	--	--	Asygen USA	Falcon Tube (50 ml) 25 tubes	Rs 19,300.00	Rs 386,000.00			
RP/PWGW/19	Petridishes	Sterile, 90mm in diameter	500 plates	--	--	--	--	--	--	--	--	Kartell Italy	Petridishes 500 pcs	Rs 8,250.00	Rs 8,250.00			
RP/PWGW/20	Plastic reagent bottles	Sterile with screw caps 1 liter plastic bottles for water sample collection	50 bottles	No Quotation Received														
RP/PWGW/21	PCR strips	Flat PCR Caps, strips of 8 strips	50 strips (400 tubes)	Asygen USA	0.2 ml Clear PCR for Real Time PCR (DNase RNase Pyrogen Free) 125 Strips	Rs 6,786.00	Rs 6,786.00	--	--	--	--	Asygen USA	PCR strips 125 Strips	Rs 1,700.00	Rs 1,700.00			
<b>Total:</b>							<b>Rs 88,710.40</b>	<b>Total:</b>							<b>Rs 97,000.00</b>	<b>Total:</b>		<b>Rs 804,350.00</b>

  
**(Abdul Ghafoor Kandhif)**  
 Procurement Manager  
 USPCAS-W, MUET, Jamshoro.

  
**(Engr. Muhammad Mashoq Siddique)**  
 Director Procurement  
 University of Shdh, Jamshoro

  
**(Prof. Dr. B. K. Lashari)**  
 Project Director  
 USPCAS-W, MUET, Jamshoro.

**SELECTED STATEMENT OF THE TENDER FOR PROCUREMENT OF CHEMICALS, PLASTIC WARES & GLASS WARES FOR RESEARCH PROJECT**

Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				Remarks
				Make & Model	Specification	Unit Rate	Total	
<b>CHEMICALS</b>								
RP/CH/01	DNeasy PowerBiofilm Kit (50)	Genomic DNA isolation kit from water bacterial biofilms	50 reactions, 1 kit	Norgen Canada	Part No. 62300 Biofilm DNA Isolation Kit 50PREP	46,337.22	46,337.22	Selected by the Technical Committee
RP/CH/02	100 bp DNA ladder (Marker)	Size: 50 µg / 500 µl, 11 bands, 500bp thick band.	1 vial (500 ul)	Norgen Canada	Opt: 1. Part No. 11500 LowRanger 100 bp DNA Ladder (100 bp to 2000 bp) 100 LOADS	7,800.00	7,800.00	Selected by the Technical Committee
RP/CH/24	VisualaNA (DNA Staining Dye)	It replaces Ethidium Bromide (toxic, potential mutagen) for visualization of DNA or RNA in Agarose gel. VisualaNA is non-carcinogenic and causes significantly fewer mutations in the Ames-test and tests negative in both the mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test.	2 vials of 1 ml	BioBasic Canada	DT81414 Green - DNA Dye, ready to use 1.5ml	14,247.38	14,247.38	Selected by the Technical Committee
RP/CH/26	Sybergreen PCR master mix	PCR master mix with dNTPS, PCR buffer, MgCl2, high fidelity polymerase, Sybergreen for qPCR experiments	1 kit for 200 reactions	Affymetrix	Part No. 75600 VeriQuest SYBR Green qPCR Master Mix (2X) 200RXN	42,000.00	42,000.00	Selected by the Technical Committee
RP/CH/27	PCR grade water (Nuclease free water)	DNase RNase Free water, for Molecular Biolgy, or Molecular Biology grade	100 ml	IDT	Part No. IDT NUCLEASUE-FREE-WATER 1L	10,800.00	10,800.00	Selected by the Technical Committee
RP/CH/28	16S V4-V5 FW	AYTGGGYDTAAAGNG, 25nm.	1	IDT DNA	AYTGGGYDTAAAGNG	540.00	540.00	Selected by the Technical Committee
RP/CH/29	16S V4-V5 RV	CCGTC AATYYTTTRAGTTT, 25nm.	1	IDT DNA	CCGTC AATYYTTTRAGTTT	720.00	720.00	Selected by the Technical Committee
RP/CH/30	clnt1-1(class1) FW	GGCATCCAAGCAGCAAG, 25nm.	1	IDT DNA	GGCATCCAAGCAGCAAG	612.00	612.00	Selected by the Technical Committee
RP/CH/31	clnt1-1(class1) RV	AAGCAGACTTGACCTGA, 25nm.	1	IDT DNA	AAGCAGACTTGACCTGA	612.00	612.00	Selected by the Technical Committee
RP/CH/32	sul1FW	CAGCGCTATGCGCTCAAG, 25nm.	1	IDT DNA	CAGCGCTATGCGCTCAAG	648.00	648.00	Selected by the Technical Committee
RP/CH/33	sul 1 RV	ATCCCGCTGCGCTGAGT, 25nm.	1	IDT DNA	ATCCCGCTGCGCTGAGT	612.00	612.00	Selected by the Technical Committee
RP/CH/34	sul2 FW	TCATCTGCCAAACTCGTCGT TA, 25nm.	1	IDT DNA	TCATCTGCCAAACTCGTCGT TA	756.00	756.00	Selected by the Technical Committee
RP/CH/35	sul2 RV	GTCAAAGAACGCCCAATGT, 25nm.	1	IDT DNA	GTCAAAGAACGCCCAATGT	720.00	720.00	Selected by the Technical Committee
RP/CH/36	sulA-folP-01 FW	CAGGCTCGTAAATTGATAGC AGAAG, 25nm	1	IDT DNA	CAGGCTCGTAAATTGATAGC AGAAG	900.00	900.00	Selected by the Technical Committee
RP/CH/37	sulA-folP-01 RV	CTTTCCTTGCGAATCGCTTT, 25nm.	1	IDT DNA	CTTTCCTTGCGAATCGCTTT	720.00	720.00	Selected by the Technical Committee
RP/CH/38	sulA-folP-03 FW	GCGATTCCGAAGGAAAGTG A, 25nm	1	IDT DNA	GCGATTCCGAAGGAAAGTG A	720.00	720.00	Selected by the Technical Committee
RP/CH/39	sulA-folP-03 RV	CACATGGGCCAATTTTTCAT C, 25nm	1	IDT DNA	CACATGGGCCAATTTTTCAT C	756.00	756.00	Selected by the Technical Committee
RP/CH/40	tnpA-01 FW	CATCATCGGACGGACAGAAT T, 25nm.	1	IDT DNA	CATCATCGGACGGACAGAAT T	756.00	756.00	Selected by the Technical Committee
RP/CH/41	tnpA-01 RV	GTCGGAGATGTTGGGTGTAG AAAGT, 25nm.	1	IDT DNA	GTCGGAGATGTTGGGTGTAG AAAGT	864.00	864.00	Selected by the Technical Committee
RP/CH/42	tnpA-02 FW	GGGCGGGTCGATTGAAA, 25nm.	1	IDT DNA	GGGCGGGTCGATTGAAA	612.00	612.00	Selected by the Technical Committee
RP/CH/43	tnpA-02 RV	GTGGGCGGGATCTGCTT, 25nm.	1	IDT DNA	GTGGGCGGGATCTGCTT	612.00	612.00	Selected by the Technical Committee
RP/CH/44	tnpA-03 FW	AATTGATCGGACGGCTTAA, 25nm.	1	IDT DNA	AATTGATCGGACGGCTTAA	720.00	720.00	Selected by the Technical Committee
RP/CH/45	tnpA-03 RV	TCACCAAAGTGTATTGGAG TCGTT, 25nm.	1	IDT DNA	TCACCAAAGTGTATTGGAG TCGTT	900.00	900.00	Selected by the Technical Committee
RP/CH/46	tnpA-04 FW	CCGATCACGGAAAGCTCAA G, 25nm	1	IDT DNA	CCGATCACGGAAAGCTCAA G	720.00	720.00	Selected by the Technical Committee
RP/CH/47	tnpA-04 RV	GGCTCGCATGACTTCGAATC, 25nm.	1	IDT DNA	GGCTCGCATGACTTCGAATC	720.00	720.00	Selected by the Technical Committee
RP/CH/48	tnpA-05 FW	GCCGCACTGTCGATTTTAT C, 25nm	1	IDT DNA	GCCGCACTGTCGATTTTAT C	756.00	756.00	Selected by the Technical Committee
RP/CH/49	tnpA-05 RV	GCGGGATCTGCCACTTCTT, 25nm.	1	IDT DNA	GCGGGATCTGCCACTTCTT	684.00	684.00	Selected by the Technical Committee
RP/CH/50	tnpA-07 FW	GAAACCGATGCTACAATATC CAATTT, 25nm	1	IDT DNA	GAAACCGATGCTACAATATC CAATTT	936.00	936.00	Selected by the Technical Committee
RP/CH/51	tnpA-07 RV	CAGCACCGTTTGCAGTGTAAG, 25nm.	1	IDT DNA	CAGCACCGTTTGCAGTGTAAG	756.00	756.00	Selected by the Technical Committee
RP/CH/52	Tp614 FW	GGAAATCAACGGCATCCAGT T, 25nm.	1	IDT DNA	GGAAATCAACGGCATCCAGT T	756.00	756.00	Selected by the Technical Committee
RP/CH/53	Tp614 RV	CATCCATGCGCTTTTGTCTCT, 25nm.	1	IDT DNA	CATCCATGCGCTTTTGTCTCT	756.00	756.00	Selected by the Technical Committee
RP/CH/54	vanA FW	AAAAGGCTCTGAAAACGCA GTTAT, 25nm.	1	IDT DNA	AAAAGGCTCTGAAAACGCA GTTAT	864.00	864.00	Selected by the Technical Committee
RP/CH/55	vanA RV	CGGCCGTTATCTGTAAAAA CAT, 25nm.	1	IDT DNA	CGGCCGTTATCTGTAAAAA CAT	828.00	828.00	Selected by the Technical Committee
RP/CH/56	vanB-01 FW	TTGTCGGCGAAGTGATCA, 25nm.	1	IDT DNA	TTGTCGGCGAAGTGATCA	684.00	684.00	Selected by the Technical Committee

Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karnchi			Remarks	
				Make & Model	Specification	Unit Rate		Total
RP/CH/57	vanB-01 RV	AGCCTTTTCCGGCTCGTT, 25nm.	1	IDT DNA	AGCCTTTTCCGGCTCGTT	684.00	684.00	Selected by the Technical Committee
RP/CH/58	vanB-02 FW	CCGGTCGAGGAACGAAATC, 25nm.	1	IDT DNA	CCGGTCGAGGAACGAAATC	684.00	684.00	Selected by the Technical Committee
RP/CH/59	vanB-02 RV	TCCTCTGCAAAAAAAGATC AAC, 25nm.	1	IDT DNA	TCCTCTGCAAAAAAAGATC AAC	828.00	828.00	Selected by the Technical Committee
RP/CH/60	vanC-01 FW	ACAGGGATTGGCTATGAACC AT, 25nm.	1	IDT DNA	ACAGGGATTGGCTATGAACC AT	792.00	792.00	Selected by the Technical Committee
RP/CH/61	vanC-01 RV	TGACTGGCGATGATTGACT ATG, 25nm.	1	IDT DNA	TGACTGGCGATGATTGACT ATG	828.00	828.00	Selected by the Technical Committee
RP/CH/62	vanC-03 FW	AAATCAATACTATGCCGGC TTT, 25nm.	1	IDT DNA	AAATCAATACTATGCCGGC TTT	828.00	828.00	Selected by the Technical Committee
RP/CH/63	vanC-03 RV	CCGACCCTGCCATCA, 25nm.	1	IDT DNA	CCGACCCTGCCATCA	576.00	576.00	Selected by the Technical Committee
RP/CH/64	vanC1 FW	AGGCGATAGCGGGTATTGA A, 25nm.	1	IDT DNA	AGGCGATAGCGGGTATTGA A	720.00	720.00	Selected by the Technical Committee
RP/CH/65	vanC1 RV	CAATCGTCAATTGCTCATT CC, 25nm.	1	IDT DNA	CAATCGTCAATTGCTCATT CC	792.00	792.00	Selected by the Technical Committee
RP/CH/66	vatB-01 FW	GGAAAAAGCAACTCCATCTC TTGA, 25nm.	1	IDT DNA	GGAAAAAGCAACTCCATCTC TTGA	864.00	864.00	Selected by the Technical Committee
RP/CH/67	vatB-01 RV	TCCTGGCATAACAGTAACAT TCTGA, 25nm.	1	IDT DNA	TCCTGGCATAACAGTAACAT TCTGA	900.00	900.00	Selected by the Technical Committee
RP/CH/68	vgaA-01 FW	CGAGTATTGGAAAGCAG CTAGTT, 25nm.	1	IDT DNA	CGAGTATTGGAAAGCAG CTAGTT	900.00	900.00	Selected by the Technical Committee
RP/CH/69	vgaA-01 RV	CCCGTACCGTTAGAGCCGAT A, 25nm.	1	IDT DNA	CCCGTACCGTTAGAGCCGAT A	756.00	756.00	Selected by the Technical Committee
RP/CH/70	vgaA-02 FW	GACGGGTATTGTGAAAGC AA, 25nm.	1	IDT DNA	GACGGGTATTGTGAAAGC AA	756.00	756.00	Selected by the Technical Committee
RP/CH/71	vgaA-02 RV	TTTCTGTACCATTAGATCC GATAATT, 25nm.	1	IDT DNA	TTTCTGTACCATTAGATCC GATAATT	972.00	972.00	Selected by the Technical Committee
RP/CH/72	yidY_mdtL-01 FW	GCAGTTGCATATCGCCTTCT C25nm.	1	IDT DNA	GCAGTTGCATATCGCCTTCT C	756.00	756.00	Selected by the Technical Committee
RP/CH/73	yidY_mdtL-01 RV	CTTCCCGGCAAAACAGCAT, 25nm.	1	IDT DNA	CTTCCCGGCAAAACAGCAT	648.00	648.00	Selected by the Technical Committee
RP/CH/74	yidY_mdtL-02 FW	TGCTGATCGGGATTCTGATT G25nm.	1	IDT DNA	TGCTGATCGGGATTCTGATT G	756.00	756.00	Selected by the Technical Committee
RP/CH/75	yidY_mdtL-02 RV	CAGGCGGACGAACATAAT, 25nm.	1	IDT DNA	CAGGCGGACGAACATAAT	684.00	684.00	Selected by the Technical Committee
RP/CH/76	vanG FW	ATTGAATTGGCAGGTATAC AGGTTA, 25nm.	1	IDT DNA	ATTGAATTGGCAGGTATAC AGGTTA	936.00	936.00	Selected by the Technical Committee
RP/CH/77	vanG RV	TGATTGTCTTTGTCCATACA TAATGC, 25nm.	1	IDT DNA	TGATTGTCTTTGTCCATACA TAATGC	972.00	972.00	Selected by the Technical Committee
RP/CH/78	vanHB FW	GAGGTTCCGAGGCGACAA, 25nm.	1	IDT DNA	GAGGTTCCGAGGCGACAA	684.00	684.00	Selected by the Technical Committee
RP/CH/79	vanHB RV	CTCTCGGCGCAGTCTGAT, 25nm.	1	IDT DNA	CTCTCGGCGCAGTCTGAT	684.00	684.00	Selected by the Technical Committee
RP/CH/80	vanHD FW	GTGGCCGATTATACCGTCAT G, 25nm.	1	IDT DNA	GTGGCCGATTATACCGTCAT G	756.00	756.00	Selected by the Technical Committee
RP/CH/81	vanHD RV	CGCAGGTCAATCAGGCAAT, 25nm.	1	IDT DNA	CGCAGGTCAATCAGGCAAT	684.00	684.00	Selected by the Technical Committee
RP/CH/82	tetA-01 FW	GCTGTTGTCTGCCGAAA, 25nm.	1	IDT DNA	GCTGTTGTCTGCCGAAA	720.00	720.00	Selected by the Technical Committee
RP/CH/83	tetA-01 RV	GGTTAAGTTCCTTGAACGCA AACT, 25nm.	1	IDT DNA	GGTTAAGTTCCTTGAACGCA AACT	864.00	864.00	Selected by the Technical Committee
RP/CH/84	tetB-01 FW	AGTGCGCTTTGGATGCTGTA, 25nm.	1	IDT DNA	AGTGCGCTTTGGATGCTGTA	720.00	720.00	Selected by the Technical Committee
RP/CH/85	tetB-01 RV	AGCCCCAGTAGCTCTGTGA, 25nm.	1	IDT DNA	AGCCCCAGTAGCTCTGTGA	720.00	720.00	Selected by the Technical Committee
RP/CH/86	tetC-01 FW	CATATCGCAATACATCGCAA AAA, 25nm.	1	IDT DNA	CATATCGCAATACATCGCAA AAA	828.00	828.00	Selected by the Technical Committee
RP/CH/87	tetC-01 RV	AAAGCCCGGTAATAGCA A25nm.	1	IDT DNA	AAAGCCCGGTAATAGCA A	720.00	720.00	Selected by the Technical Committee
RP/CH/88	tetD-01 FW	TGCCGCGTTGATTACACA, 25nm.	1	IDT DNA	TGCCGCGTTGATTACACA	684.00	684.00	Selected by the Technical Committee
RP/CH/89	tetD-01 RV	CACCAGTGATCCCGGAGATA A, 25nm.	1	IDT DNA	CACCAGTGATCCCGGAGATA A	720.00	720.00	Selected by the Technical Committee
RP/CH/90	tetE FW	TTGGCGTGTATGCAATGAT, 25nm.	1	IDT DNA	TTGGCGTGTATGCAATGAT	720.00	720.00	Selected by the Technical Committee
RP/CH/91	tetE RV	CGACGACCTATCGATCTGA, 25nm.	1	IDT DNA	CGACGACCTATCGATCTGA	720.00	720.00	Selected by the Technical Committee
RP/CH/92	tetG-01 FW	TCAACCATTGCCGATTCTGA, 25nm.	1	IDT DNA	TCAACCATTGCCGATTCTGA	684.00	684.00	Selected by the Technical Committee
RP/CH/93	tetG-01 RV	TGGCCCGCAATCATG, 25nm.	1	IDT DNA	TGGCCCGCAATCATG	576.00	576.00	Selected by the Technical Committee
RP/CH/94	tetH FW	TTTGGGTATCTTACCAGCA TTAA, 25nm.	1	IDT DNA	TTTGGGTATCTTACCAGCA TTAA	864.00	864.00	Selected by the Technical Committee
RP/CH/95	tetH RV	TTGGCATTATATCGACAG A, 25nm.	1	IDT DNA	TTGGCATTATATCGACAG A	756.00	756.00	Selected by the Technical Committee
RP/CH/96	tetJ FW	GGGTGCCGATTAGATTACC T, 25nm.	1	IDT DNA	GGGTGCCGATTAGATTACC T	766.00	766.00	Selected by the Technical Committee
RP/CH/97	tetJ RV	TCGTCCAATGTAGAGCATCC ATA, 25nm.	1	IDT DNA	TCGTCCAATGTAGAGCATCC ATA	828.00	828.00	Selected by the Technical Committee
RP/CH/98	tetK FW	CAGCAGTCATTGGAAAATTA TCTGATTATA, 25nm.	1	IDT DNA	CAGCAGTCATTGGAAAATTA TCTGATTATA	1,080.00	1,080.00	Selected by the Technical Committee
RP/CH/99	tetK RV	CCTTGTAACCTACCAAAA AATCAAAAATA, 25nm.	1	IDT DNA	CCTTGTAACCTACCAAAA AATCAAAAATA	1,080.00	1,080.00	Selected by the Technical Committee
RP/CH/100	tetL-01 FW	AGCCCGATTATTCAAGGAA TTG, 25nm.	1	IDT DNA	AGCCCGATTATTCAAGGAA TTG	828.00	828.00	Selected by the Technical Committee
RP/CH/101	tetL-01 RV	CAAAATGCTTCCCTGTCT, 25nm.	1	IDT DNA	CAAAATGCTTCCCTGTCT	756.00	756.00	Selected by the Technical Committee
RP/CH/102	tetM-01 FW	CATCATAGACAGCCAGGAC ATAT, 25nm.	1	IDT DNA	CATCATAGACAGCCAGGAC ATAT	864.00	864.00	Selected by the Technical Committee

Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi			Remarks	
				Make & Model	Specification	Unit Rate		Total
RP/CH/103	telM-01 RV	CGCCATCTTTTCAGAAATC A25nm.	1	IDT DNA	CGCCATCTTTTCAGAAATC A	756.00	756.00	Selected by the Technical Committee
RP/CH/104	telO-01 FW	ATGTGGATACTACAACGCAT GAGATT, 25nm.	1	IDT DNA	ATGTGGATACTACAACGCAT GAGATT	936.00	936.00	Selected by the Technical Committee
RP/CH/105	telO-01 RV	TGCTCCACATGATATTTTTC CT, 25nm.	1	IDT DNA	TGCTCCACATGATATTTTTC CT	828.00	828.00	Selected by the Technical Committee
RP/CH/106	telPA FW	AGTTGCAGATGTGTATAGTC GTAAACTATCTATT, 25nm.	1	IDT DNA	AGTTGCAGATGTGTATAGTC GTAAACTATCTATT	1,224.00	1,224.00	Selected by the Technical Committee
RP/CH/107	telPA RV	TGCTACAAGTACGAAAACAA AACTAGAA, 25nm.	1	IDT DNA	TGCTACAAGTACGAAAACAA AACTAGAA	1,008.00	1,008.00	Selected by the Technical Committee
RP/CH/108	telPB-01 FW	ACACCTGGACACGCTGATTT T25nm.	1	IDT DNA	ACACCTGGACACGCTGATTT T	756.00	756.00	Selected by the Technical Committee
RP/CH/109	telPB-01 RV	ACCGTCTAGAACGCGGAAT G, 25nm.	1	IDT DNA	ACCGTCTAGAACGCGGAAT G	720.00	720.00	Selected by the Technical Committee
RP/CH/110	telQ FW	CGCCTCAGAAGTAAAGTTTCA TACACTAAG, 25nm.	1	IDT DNA	CGCCTCAGAAGTAAAGTTTCA TACACTAAG	1,008.00	1,008.00	Selected by the Technical Committee
RP/CH/111	telQ RV	TCGTTTCATCCGGATATTATC AGAAT, 25nm.	1	IDT DNA	TCGTTTCATCCGGATATTATC AGAAT	900.00	900.00	Selected by the Technical Committee
RP/CH/112	mexA FW	AGGACAACGCTATGCAACG AA, 25nm.	1	IDT DNA	AGGACAACGCTATGCAACG AA	756.00	756.00	Selected by the Technical Committee
RP/CH/113	mexA RV	CCGGAAAGGGCCGAAAT, 25nm.	1	IDT DNA	CCGGAAAGGGCCGAAAT	612.00	612.00	Selected by the Technical Committee
RP/CH/114	mexD FW	TTGCCACTGGCTTTCATGAG, 25nm.	1	IDT DNA	TTGCCACTGGCTTTCATGAG	720.00	720.00	Selected by the Technical Committee
RP/CH/115	mexD RV	CACTGCGGAGAACTGTCTGT AGA, 25nm.	1	IDT DNA	CACTGCGGAGAACTGTCTGT AGA	828.00	828.00	Selected by the Technical Committee
RP/CH/116	mexE FW	GGTCAGCACCCGACAAAGGTC TAC, 25nm.	1	IDT DNA	GGTCAGCACCCGACAAAGGTC TAC	792.00	792.00	Selected by the Technical Committee
RP/CH/117	mexE RV	AGCTCGAGCTACTTGAGGAA CAC, 25nm.	1	IDT DNA	AGCTCGAGCTACTTGAGGAA CAC	828.00	828.00	Selected by the Technical Committee
RP/CH/118	mexF FW	CCGGGAGAAGGCCAAGA, 25nm.	1	IDT DNA	CCGGGAGAAGGCCAAGA	612.00	612.00	Selected by the Technical Committee
RP/CH/119	mexF RV	TTGAGTTCGGCGGTGATGA, 25nm.	1	IDT DNA	TTGAGTTCGGCGGTGATGA	684.00	684.00	Selected by the Technical Committee
RP/CH/120	ampC-01 FW	TGGCGTATCGGGTCAATGT, 25nm.	1	IDT DNA	TGGCGTATCGGGTCAATGT	684.00	684.00	Selected by the Technical Committee
RP/CH/121	ampC-01 RV	CTCCACGGGCCAGTTGAG, 25nm.	1	IDT DNA	CTCCACGGGCCAGTTGAG	648.00	648.00	Selected by the Technical Committee
RP/CH/122	ampC-02 FW	GCAGCACGCCCGTAA, 25nm.	1	IDT DNA	GCAGCACGCCCGTAA	576.00	576.00	Selected by the Technical Committee
RP/CH/123	ampC-02 RV	TGTACCCATGATGCGCGTAC T25nm.	1	IDT DNA	TGTACCCATGATGCGCGTAC T	756.00	756.00	Selected by the Technical Committee
RP/CH/124	ampC-04 FW	TCCGGTGACGCGACAGA, 25nm.	1	IDT DNA	TCCGGTGACGCGACAGA	612.00	612.00	Selected by the Technical Committee
RP/CH/125	ampC-04 RV	CAGCACGCCGGTAAAGT, 25nm.	1	IDT DNA	CAGCACGCCGGTAAAGT	648.00	648.00	Selected by the Technical Committee
RP/CH/126	ampC-05 FW	CTGTTGAGCTGGGTTCTAT AAGTAAA, 25nm.	1	IDT DNA	CTGTTGAGCTGGGTTCTAT AAGTAAA	972.00	972.00	Selected by the Technical Committee
RP/CH/127	ampC-05 RV	CAGTATCTGGTACCCGGATC GT, 25nm.	1	IDT DNA	CAGTATCTGGTACCCGGATC GT	792.00	792.00	Selected by the Technical Committee
RP/CH/128	ampC-06 FW	CCGCTCAAGCTGGACCATAC 25nm.	1	IDT DNA	CCGCTCAAGCTGGACCATAC	720.00	720.00	Selected by the Technical Committee
RP/CH/129	ampC-06 RV	CCATATCTGCACGTTGGTT T, 25nm.	1	IDT DNA	CCATATCTGCACGTTGGTT T	756.00	756.00	Selected by the Technical Committee
RP/CH/130	blaSHV-01 FW	TCCCATGATGAGCACCTTTA AA, 25nm.	1	IDT DNA	TCCCATGATGAGCACCTTTA AA	792.00	792.00	Selected by the Technical Committee
RP/CH/131	blaSHV-01 RV	TTCGTCACCCGCATCCA, 25nm.	1	IDT DNA	TTCGTCACCCGCATCCA	612.00	612.00	Selected by the Technical Committee
RP/CH/132	blaTEM FW	AGCATCTTACGGATGGCATG A, 25nm.	1	IDT DNA	AGCATCTTACGGATGGCATG A	756.00	756.00	Selected by the Technical Committee
RP/CH/133	blaTEM RV	TCCTCCGATCGTTGTCAGAA GT, 25nm.	1	IDT DNA	TCCTCCGATCGTTGTCAGAA GT	792.00	792.00	Selected by the Technical Committee
RP/CH/134	speN-01 FW	AAAAGTTTCGATGAAACACG CCTAT, 25nm.	1	IDT DNA	AAAAGTTTCGATGAAACACG CCTAT	864.00	864.00	Selected by the Technical Committee
RP/CH/135	speN-01 RV	TCCAGTGGTATGCCCCGAAT C, 25nm.	1	IDT DNA	TCCAGTGGTATGCCCCGAAT C	756.00	756.00	Selected by the Technical Committee
RP/CH/136	speN-02 FW	CAGAATCTTCTGAAAAGTT TGATGAA, 25nm.	1	IDT DNA	CAGAATCTTCTGAAAAGTT TGATGAA	972.00	972.00	Selected by the Technical Committee
RP/CH/137	speN-02 RV	CGCAGACACGCCGAATC, 25nm.	1	IDT DNA	CGCAGACACGCCGAATC	612.00	612.00	Selected by the Technical Committee
RP/CH/138	str FW	AATGAGTTTTGGAGTGTCTC AACGTA, 25nm.	1	IDT DNA	AATGAGTTTTGGAGTGTCTC AACGTA	936.00	936.00	Selected by the Technical Committee
RP/CH/139	str RV	AATCAAAAACCCCTATTAAG CCAAT, 25nm.	1	IDT DNA	AATCAAAAACCCCTATTAAG CCAAT	900.00	900.00	Selected by the Technical Committee
RP/CH/140	strA FW	CCGGTGGCATTTGAGAAAAA , 25nm.	1	IDT DNA	CCGGTGGCATTTGAGAAAAA	720.00	720.00	Selected by the Technical Committee
RP/CH/141	strA RV	GTGGCTCAACCTGCGAAAA G, 25nm.	1	IDT DNA	GTGGCTCAACCTGCGAAAA G	720.00	720.00	Selected by the Technical Committee
RP/CH/142	strB FW	GCTCGGTCGTGAGAACAATC T, 25nm.	1	IDT DNA	GCTCGGTCGTGAGAACAATC T	756.00	756.00	Selected by the Technical Committee
RP/CH/143	strB RV	CAATTCGGTCGCTGGTAG T 25nm.	1	IDT DNA	CAATTCGGTCGCTGGTAG T	756.00	756.00	Selected by the Technical Committee
<b>Total Amount Rs.</b>						<b>210,438.60</b>		



(Junaid Kori)  
Research Associate  
USPCAS-W, MUET, Jamshoro.




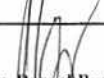
(Dr. Rasool Bux Mahar)  
Principal Investigator  
HEC Funded Project



**SELECTED STATEMENT OF THE TENDER FOR PROCUREMENT OF CHEMICALS, PLASTIC WARES & GLASS WARES FOR RESEARCH PROJECT**


Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Musaji Adam & Sons (Pvt) Ltd, Karachi				Remarks
				Make & Model	Specification	Unit Rate	Total	
<b>CHEMICALS</b>								
RP/CH/04	Casamino acid	hydrochloric acid hydrolysate of casein.	500g	Dacjung Korea	Casamino Acid, 500g	5,900.00	5,900.00	Selected by Technical Committee
RP/CH/05	Dextrose	Synonyms: Dextrose, Formula: C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> , Molecular weight: 180.16 g/mol.	500g	Dacjung Korea	Dextrose, 500g	1,000.00	1,000.00	Selected by Technical Committee
RP/CH/06	Soluble starch	Formula: C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> Formula Weight: 342.30 g/mol.	500g	Dacjung Korea	Soluble starch, 500g	2,400.00	2,400.00	Selected by Technical Committee
RP/CH/07	Dipotassium phosphate	K <sub>2</sub> HPO <sub>4</sub> 174.18 g/mol	500g	Dacjung Korea	Dipotassium phosphate, 500g	1,500.00	1,500.00	Selected by Technical Committee
RP/CH/08	Magnesium sulphate per 7H <sub>2</sub> O	Magnesium sulfate heptahydrate; Magnesium sulfate (1:1) heptahydrate; Magnesium sulphate heptahydrate; Magnesium sulfate Molecular Formula: H <sub>14</sub> MgO <sub>11</sub> S Molecular Weight: 246.466 g/mol.	500g	Dacjung Korea	Magnesium sulphate, 500g	1,000.00	1,000.00	Selected by Technical Committee
RP/CH/09	Sodium Pyruvate	Formula: C <sub>3</sub> H <sub>3</sub> NaO <sub>3</sub> Formula Weight: 110.04 g/mol Storage Temperature: 2 - 8°C	500g	Scharlau Spain	Sodium Pyruvate, 500g	28,700.00	28,700.00	Selected by Technical Committee
RP/CH/10	Magnesium Sulphate	Formula: MgSO <sub>4</sub> Formula Weight: 120.37 g/mol.	500g	Dacjung Korea	Magnesium Sulphate, 500g	1,600.00	1,600.00	Selected by Technical Committee
RP/CH/11	NaOCl (Sodium hypochlorite solution)	Reagent grade, available chlorine 10-15 %, 425044-250ML.	500ml	Dacjung Korea	NaOCl (Sodium hypochlorite solution) 500ml	600.00	600.00	Selected by Technical Committee
RP/CH/12	Liquid NH <sub>3</sub>	Formula: H <sub>3</sub> N, Formula Weight: 17.03 g/mol.	500 ml	Dacjung Korea	Liquid NH <sub>3</sub> - Ammonia, 500ml	600.00	600.00	Selected by Technical Committee
RP/CH/15	m-Endo Agar LES	Lactose 9.4 g Non-Denatured Ethanol, 20 mL Tryptose 7.5 g Enzymatic Digest of Casein 3.7 g Enzymatic Digest of Animal Tissue 3.7 g Sodium Chloride 3.7 g Potassium Phosphate, dibasic 3.3 g Sodium Sulfite 1.6 g Yeast Extract 1.2 g Potassium Phosphate, monobasic 1.0 g Basic Fuchsin 0.8 g Sodium Deoxycholate 0.1 g Sodium Lauryl Sulfate 0.05 g Agar 15 g Final pH: 7.2 ± 0.2 at 25°C	1kg	Oxoid UK	m-Endo Agar LES 500g	18,000.00	36,000.00	The pack size offered by selected vendor is 500g and required quantity as per tender is 1 kg, therefore 2 packs (500g each) of this items are required. Selected by Technical Committee
RP/CH/16	R2A Agar	packaging 500 g, solubility 18.2 g/l, shipped in ambient, storage temp. Store at +15°C to +25°C.	1 Kg	Oxoid UK	R2A Agar 500g	14,500.00	29,000.00	The pack size offered by selected vendor is 500g and required quantity as per tender is 1 kg, therefore 2 packs (500g each) of this items are required. Selected by Technical Committee
RP/CH/17	m-FC Agar, Vegitone	Composition: Ingredients Grams/Litre Tryptose (vegetable) 10.0, Proteose Peptone (vegetable) 5.0, Yeast extract 3.0, Lactose 12.5, Synthetic detergent 1.5, Sodium chloride 5.0, Aniline blue 0.1, Agar 15.0, Final pH 7.4 +/- 0.2 at 25°C.	1 Kg	Oxoid UK	m-FC Agar, Vegitone 500g	24,000.00	48,000.00	The pack size offered by selected vendor is 500g and required quantity as per tender is 1 kg, therefore 2 packs (500g each) of this items are required. Selected by Technical Committee
RP/CH/18	EMB agar	EOSIN METHYLENE BLUE AGAR (MODIFIED) LEVINE	1 Kg	Oxoid UK	EMB Agar 500g	8,500.00	17,000.00	The pack size offered by selected vendor is 500g and required quantity as per tender is 1 kg, therefore 2 packs (500g each) of this items are required. Selected by Technical Committee
RP/CH/20	Tris HCl	Molecular Biology Grade, Formula Weight: 157.56, Purity: ≥99.0%	500g	Scharlau Spain	Tris HCl 100g	3,400.00	17,000.00	The pack size offered by selected vendor is 100g and required quantity as per tender is 500g, therefore 5 packs (100g each) of this items are required. Selected by Technical Committee
RP/CH/21	EDTA	Molecular biology grade, Molecular Weight: 292.24	200g	Scharlau Spain	EDTA 1kg	23,800.00	23,800.00	Selected by Technical Committee
RP/CH/22	Glacial acetic acid	Molecular biology grade, Assay ≥99.85%, Molecular Weight 60.05	500 ml	Dacjung Korea	Glacial Acetic Acid, 500ml	1,000.00	1,000.00	Selected by Technical Committee
RP/CH/25	Absolute ethanol	Assay ≥99.8% (GC), Molecular Weight 46.07.	5 liter	--	Absolute E 2.5L	7,500.00	15,000.00	The pack size offered by selected vendor is 2.5L and required quantity as per tender is 5 L, therefore 2 packs (2.5L each) of this items are required. Selected by Technical Committee
<b>Total Amount Rs.</b>							<b>230,100.00</b>	


  
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**SELECTED STATEMENT OF THE TENDER FOR PROCUREMENT OF CHEMICALS, PLASTIC WARES & GLASS WARES  
FOR RESEARCH PROJECT**


Item Code	Name of Equipment	Description / Specification of Items	Qty	M/s Briogene (Pvt) Ltd., Karachi				Remarks
				Make & Model	Specification	Unit Rate	Total	
<b>CHEMICALS</b>								
RP/CH/03	DNeasy PowerWater Kit	Genomic DNA extraction kit from water samples	50 reactions/Kit	Qiagen	Cat No. 14900-50-NF DNeasy PowerWater Kit (50) For the Isolation of genomic DNA from filtered water samples, including turbid water Pack Size: 50 reactions/Kit	80,000.00	80,000.00	Selected by the Technical Committee
RP/CH/23	6X gel loading dye	Label or Dye: Bromophenol Blue, Gel Compatibility: Acrylamide Gels, Agarose Gels.	1 vial (1 ml)	Qiagen	Cat No. 239901 Gel/Pilot DNA Loading Dye 5x Pack Size: 6x500 ul, 1 Kit	10,000.00	10,000.00	Selected by the Technical Committee
<b>Total Amount Rs.</b>							<b>90,000.00</b>	

  
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Item Code	Name of Equipment	Description / Specification of items	Qty	M/s Penicon, Karachi				
				Make & Model	Specification	Unit Rate	Total	Remarks
<b>PLASTIC WARES &amp; GLASS WARES</b>								
RP/PWGW/01	1.5 ml centrifuge tubes	Microcentrifuge Tube, 1.5ml, Attached Locking Snap Cap, Rnase, Dnase, Pryogen, ATP and Human DNA Free, Sterile	500 tubes	BioBasic Canada	BT620-NS 1.5 ml Centrifuge tube 1000/PK	6,318.00	6,318.00	Selected by the Technical Expert
RP/PWGW/05	Parafilm	roll size=4 in. × 125 ft.	4	BioBasic Canada	PF002 Parafilm, 4X125'	9,632.60	38,530.40	Selected vender quoted unit price of this item as 9,632.60, and as per tender required quantity of this item is 4. Selected by the Technical Expert.
RP/PWGW/09	0.2 ml PCR tubes	0.2 ml thin-walled tubes with clear flat cap, for real time PCR experiments	total 100 pieces or 5 packs	BioBasic Canada	BP541-S100 0.2 ml PCR Tube, Flat Cap, Sterile 10x100/ BAG	6,786.00	6,786.00	Selected by the Technical Expert
<b>Total:</b>						<b>51,634.40</b>		

  
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Item Code	Name of Equipment	Description / Specification of Items	Qty	M/s Musaji Adam & Sons (Pvt) Ltd, Karachi				
				Make & Model	Specification	Unit Rate	Total	Remarks
<b>PLASTIC WARES &amp; GLASS WARES</b>								
RP/PWGW/02	Tips boxes 10 µl	Sterilized, volume range 0.1-10µl	10 boxes	Corning USA	Tip Box 10 ul 96 tips	1,200.00	12,000.00	Selected vender quoted 1,200.00 per box (96 tips per box), and required quantity as per tender is 10 boxes. Selected by the Technical Expert
RP/PWGW/03	Tips boxes 100 µl	Sterilized, volume range 10-100µl	10 boxes	Corning USA	Tip Box 100 ul 96 tips	1,000.00	10,000.00	Selected vender quoted 1,000.00 per box (96 tips per box), and required quantity as per tender is 10 boxes. Selected by the Technical Expert
RP/PWGW/04	Tips boxes 1000 µl	Sterilized, volume range 100-1000µl	10 boxes	Corning USA	Tip Box 1000 ul 100 tips	1,150.00	11,500.00	Selected vender quoted 1,150.00 per box (96 tips per box), and required quantity as per tender is 10 boxes. Selected by the Technical Expert
RP/PWGW/08	Alluminium foil	Diamond aluminium foil, 37.5 sq.ft.	5	Pak-made	Aliminum Foil	480.00	2,400.00	Selected vender quoted 480.00 per item, and required quantity as per tender is 5 items. Selected by the Technical Expert
RP/PWGW/11	1.5 ml tube racks	0.2ml, 1.5ml, and 2ml Micro Centrifuge Polypropylene Test Tube Rack Holder	4	Corning USA	Tube Rack (1.5 ml)	1,800.00	7,200.00	Selected vender quoted 1,800.00 per item, and required quantity as per tender is 4 items. Selected by the Technical Expert
RP/PWGW/12	1.5 ml cryopreservation box	Water-repellant, fiberboard cryo box (2-inch) for 1-8ml tubes, Dimensions (L x W x H) 5 x 5 x 2 in. (12.7 x 12.7 x 5cm)	5	Corning USA	Cryopreservation box (1.5 ml)	4,800.00	24,000.00	Selected vender quoted 4,800.00 per item, and required quantity as per tender is 5 items. Selected by the Technical Expert
RP/PWGW/19	Petridishes	Sterile, 90mm in diameter	500 plates	Kartell Italy	Petridishes 500 pcs	8,250.00	8,250.00	Selected by the Technical Expert
RP/PWGW/21	PCR strips	Flat PCR Caps, strips of 8 strips	50 strips (400 tubes)	Axygen USA	PCR strips 125 Strips	1,700.00	1,700.00	Selected by the Technical Expert
						<b>Total:</b>	<b>77,050.00</b>	

  
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